

FIGURE 1

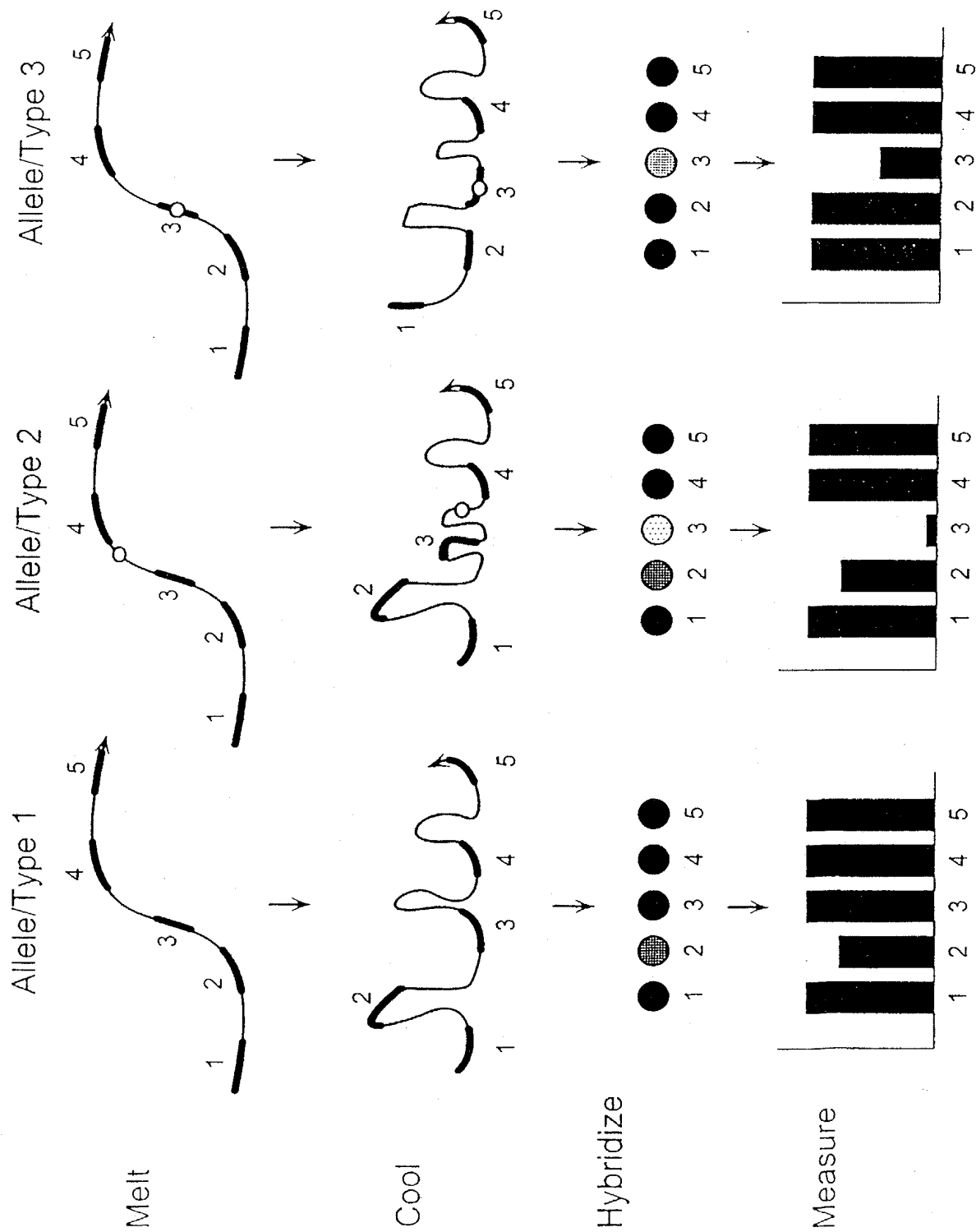


FIGURE 2

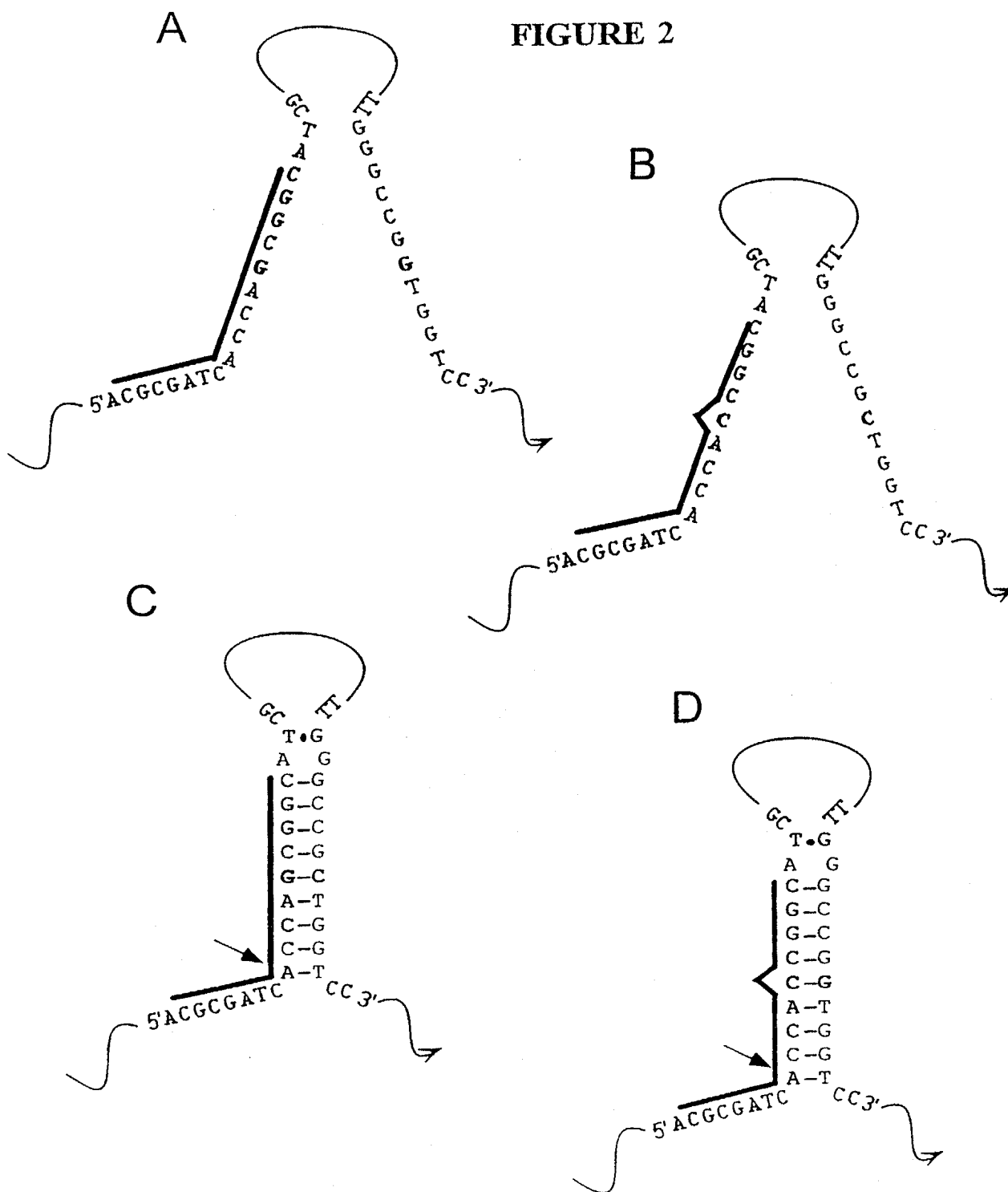


FIGURE 3

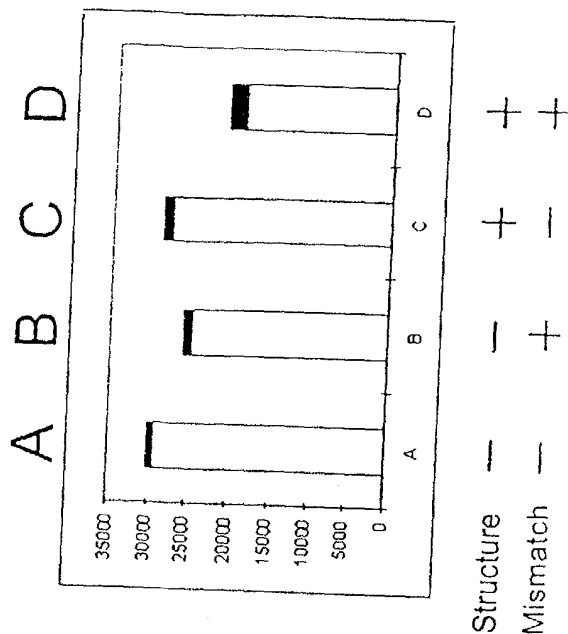
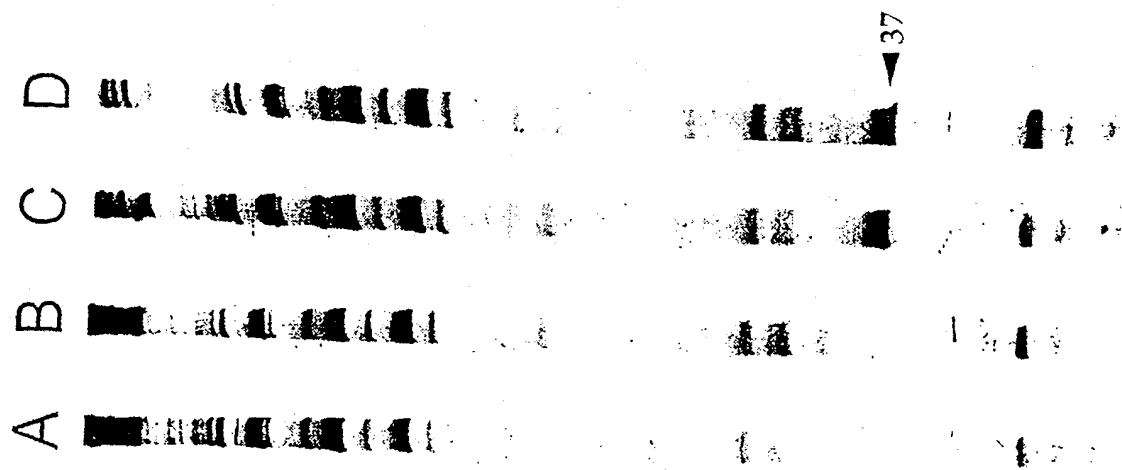


FIGURE 4

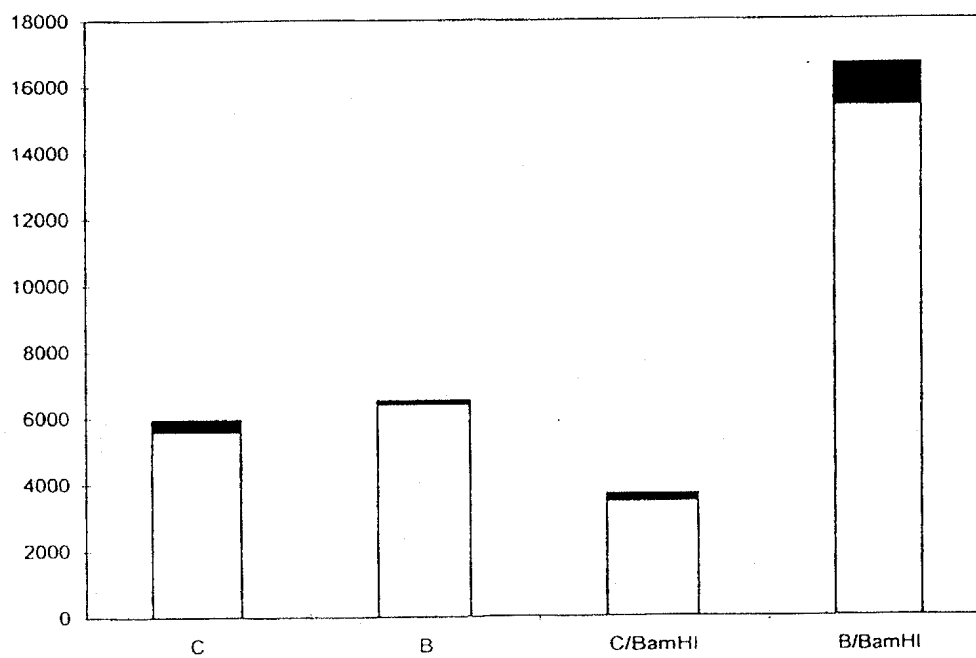


FIGURE 5

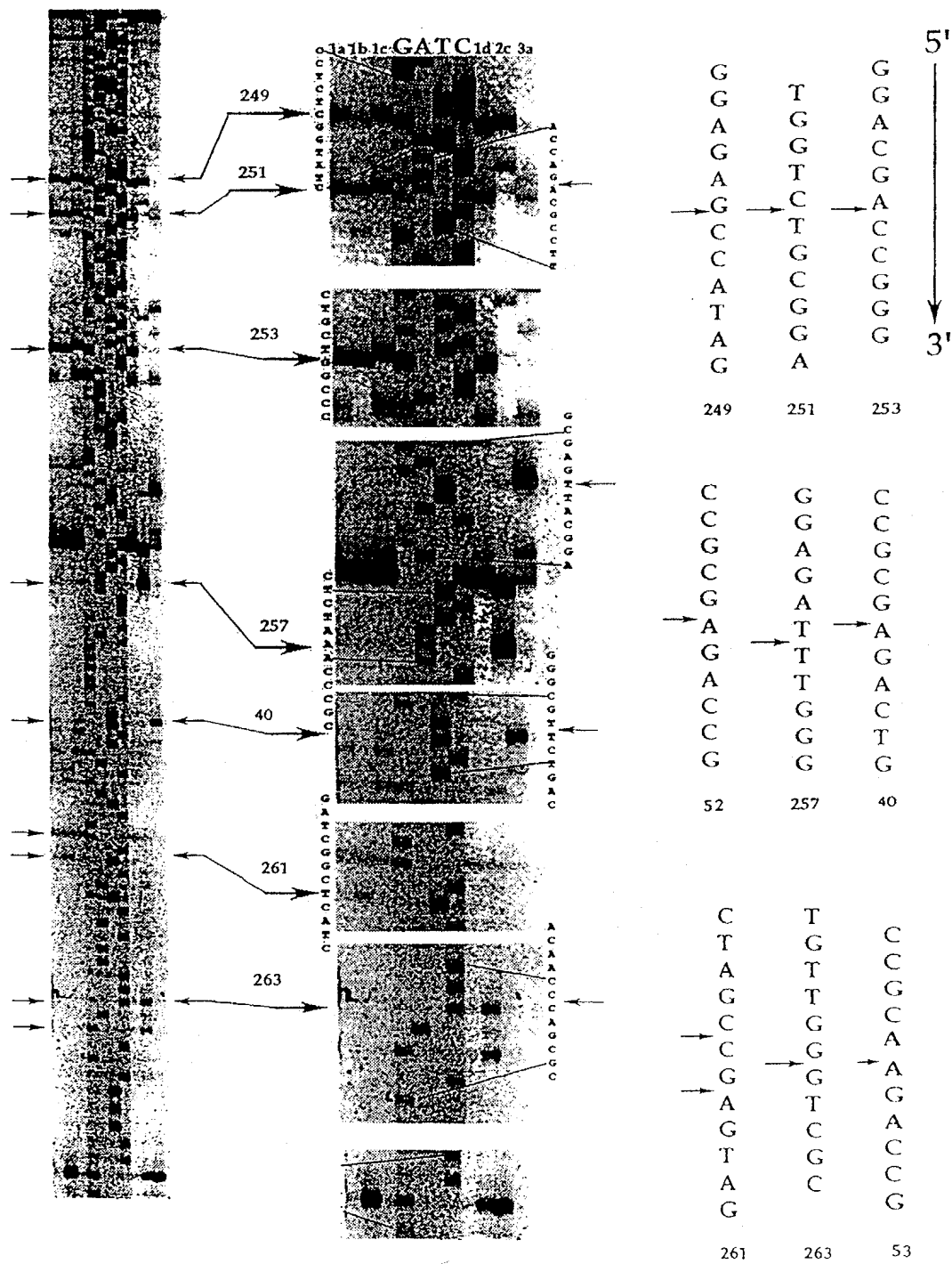


FIGURE 6

Consensus:GATTCTGTCT	TCACGCAGAA	AGCGTCTAGC	CATGGCGTTA	GTATGAGTGT	CGTGCAGCCT
HCV 1a	-----	-----	-----	-----	-----
HCV 1b	-----	-----	-----	-----	-----
HCV 2c	-----	-----	-----	-----	-A-----
HCV 3a	-----	-C-----	-----	-C-----	-----

	#249	#251
CCAGGACCCC	CCCTCCCCGG <u>AGAGCCATAG</u>	<u>TGGTCTCGGG</u> AACCGGTGAG TACACCGGAA
-----	-----	-----
-T-----	-----	-----
-C-----	-----	-----
-----	-A-----	-----

	#253	#257
TTGCCAGGAC	<u>GACCGGGTCC</u> TTTCTTGGAT CAACCCGCTC	AATGCCTGGA <u>GATTGGGCG</u>
-----	-----	-----
-G--A	-T-----	-----
-C-TG--GT	-----	T-----C-C C-
-----	-----G	-A-CA- A-

	#40	#261	#263
TGCCCCCGCA	<u>AGACTGCTAG</u> CCGAGTAGTG	<u>TTGGGTGCGG</u> AAAGGCCTTG	TGGTACTGCC
-----	-----	-----	-----
-G-----	-----	-----	-----
-----	-----C	-T-----	-----
-G-----	-TCA-----	-----	-----

TGATAGGGTG	CTTGGGAGTG	CCCCGGGAGG TCTCGTAGAC
-----	-----	CGTGCAATC
-----	-----	-----
-----	-----	-----
-----	-A-----	-----
-----	-----	-----

FIGURE 7

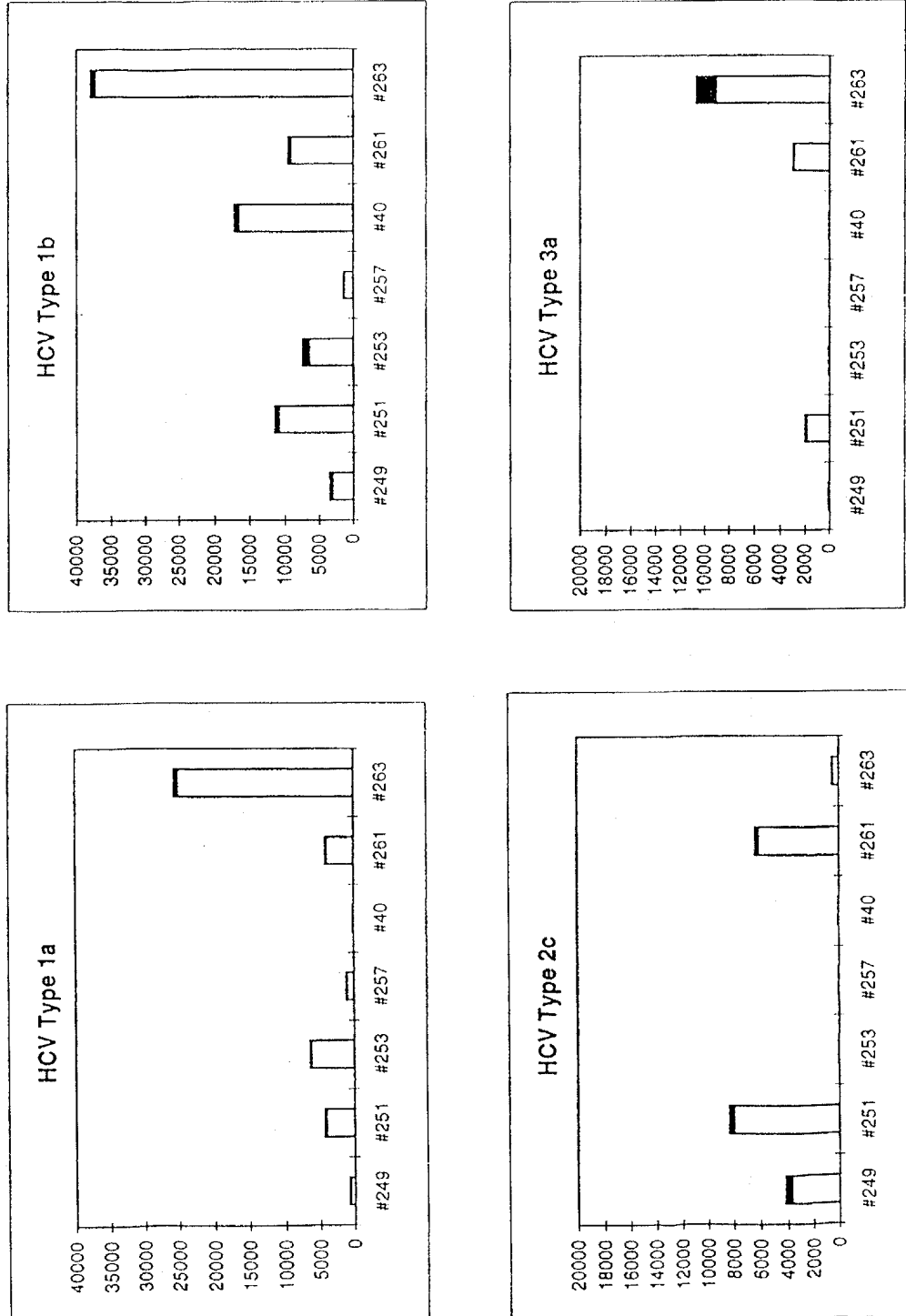
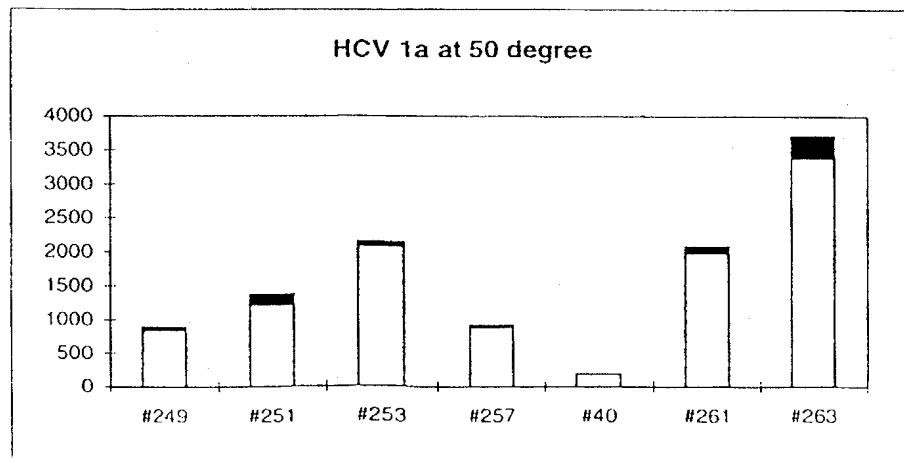
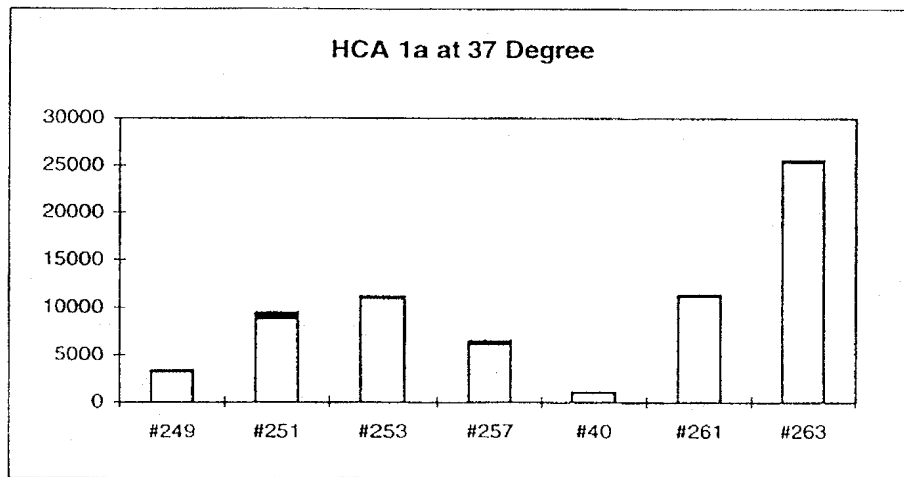
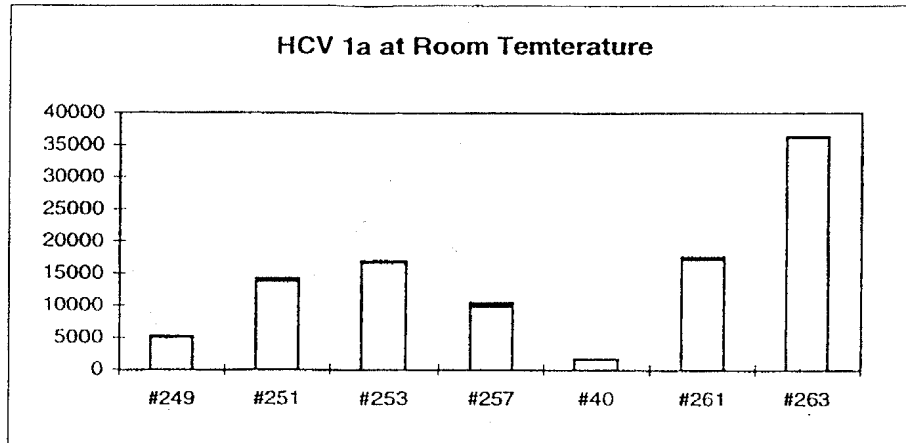
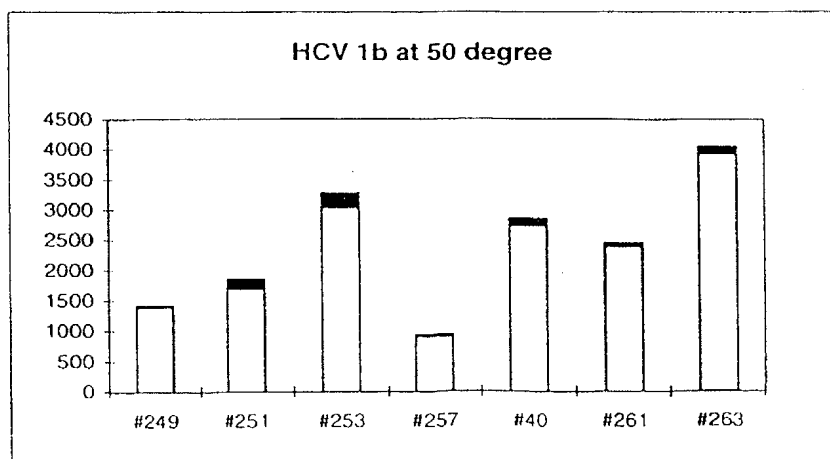
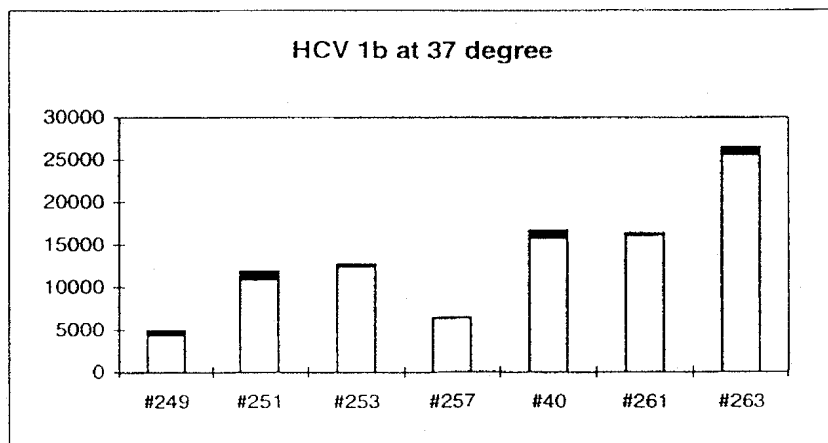
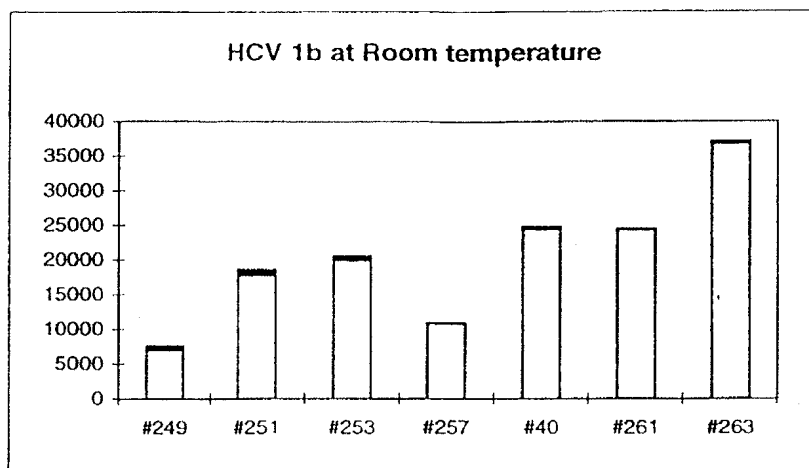


FIGURE 8A



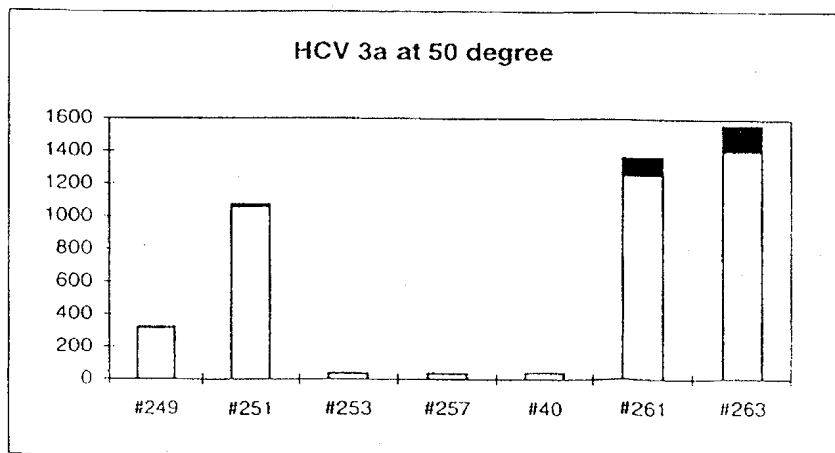
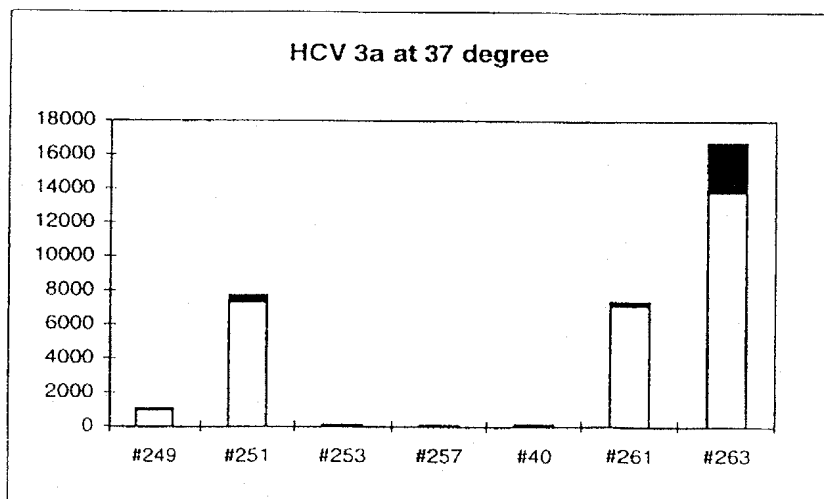
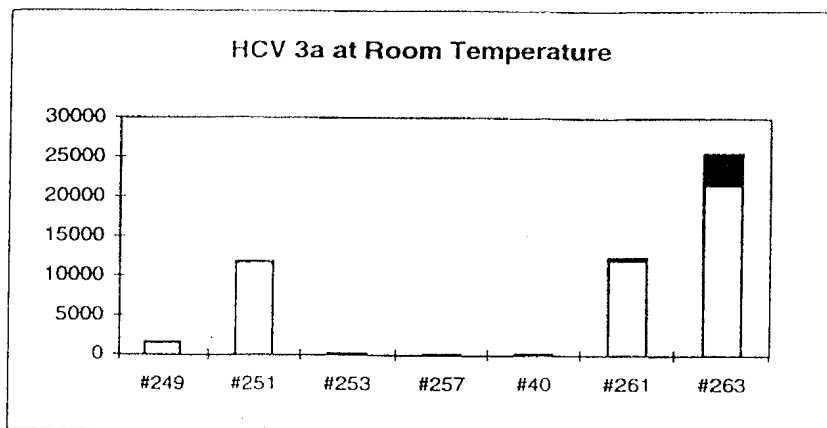
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FIGURE 8B



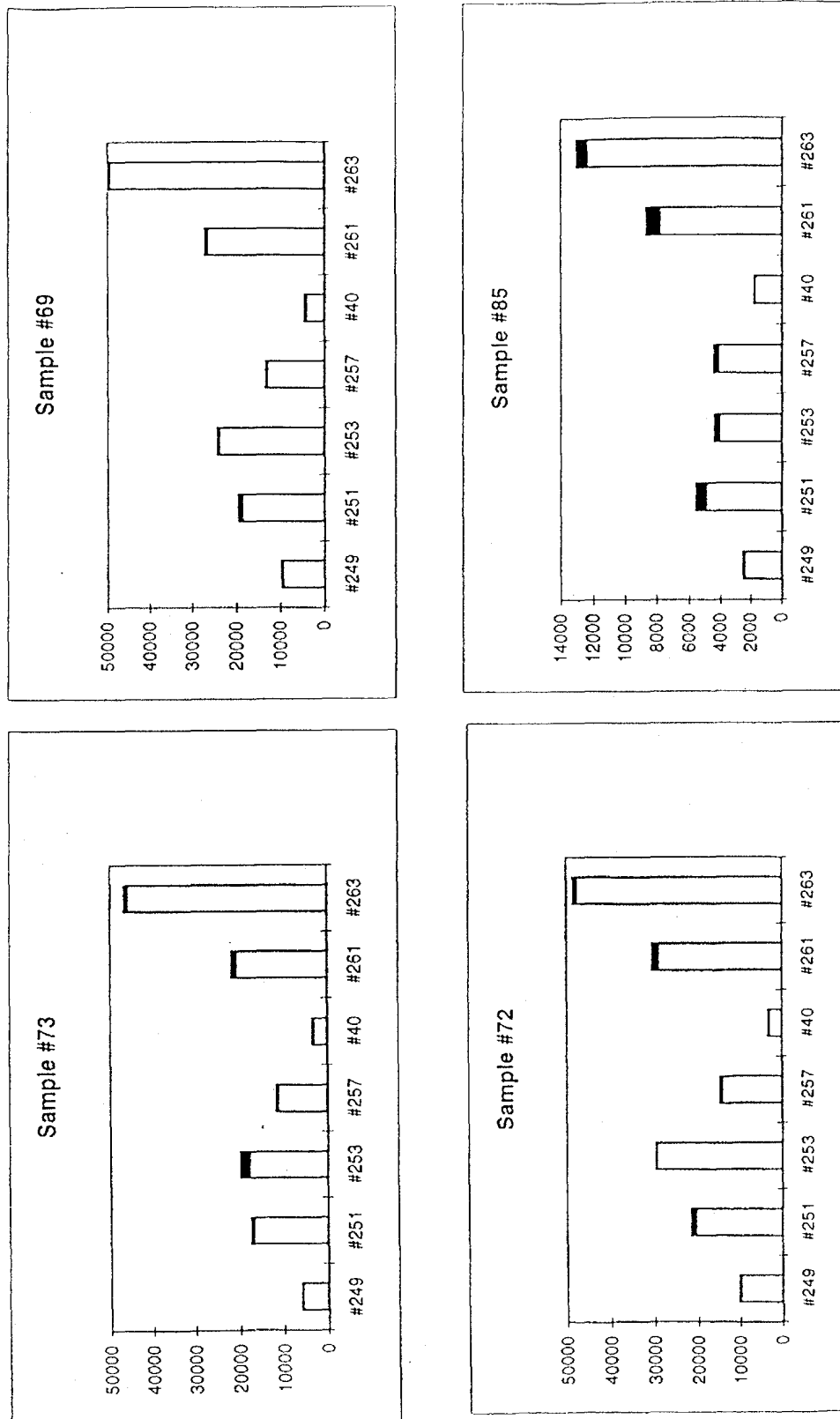
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FIGURE 8C



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FIGURE 9A



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FIGURE 9B

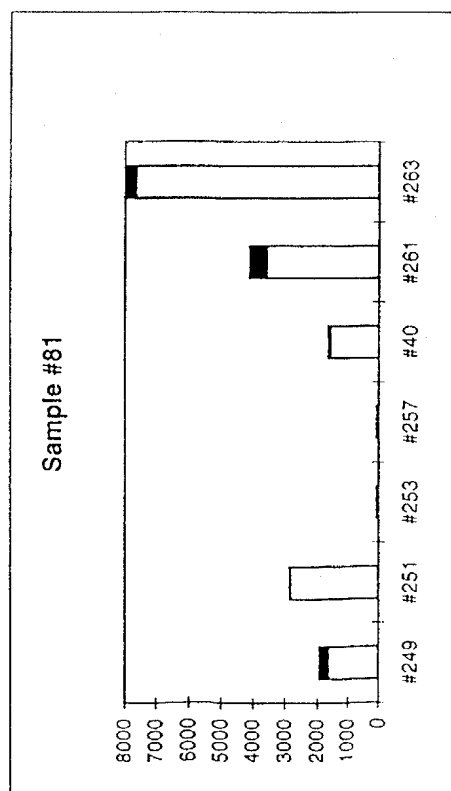
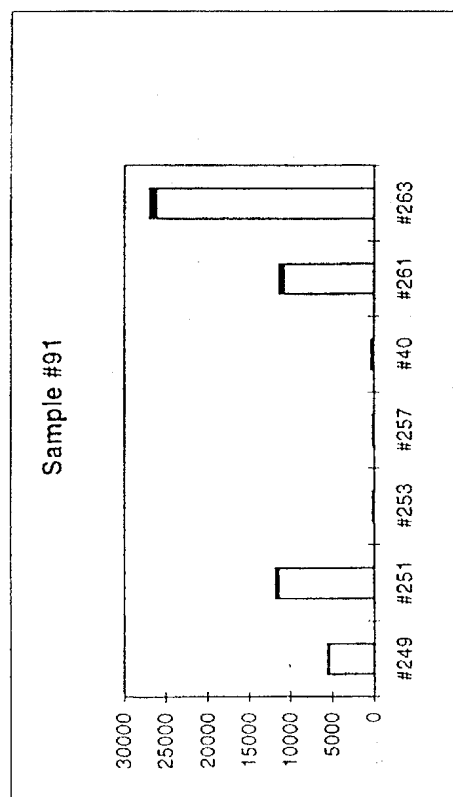
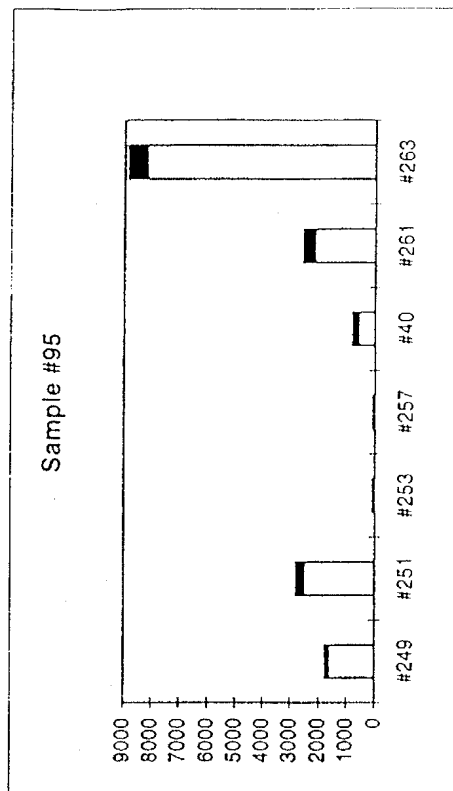


FIGURE 9C

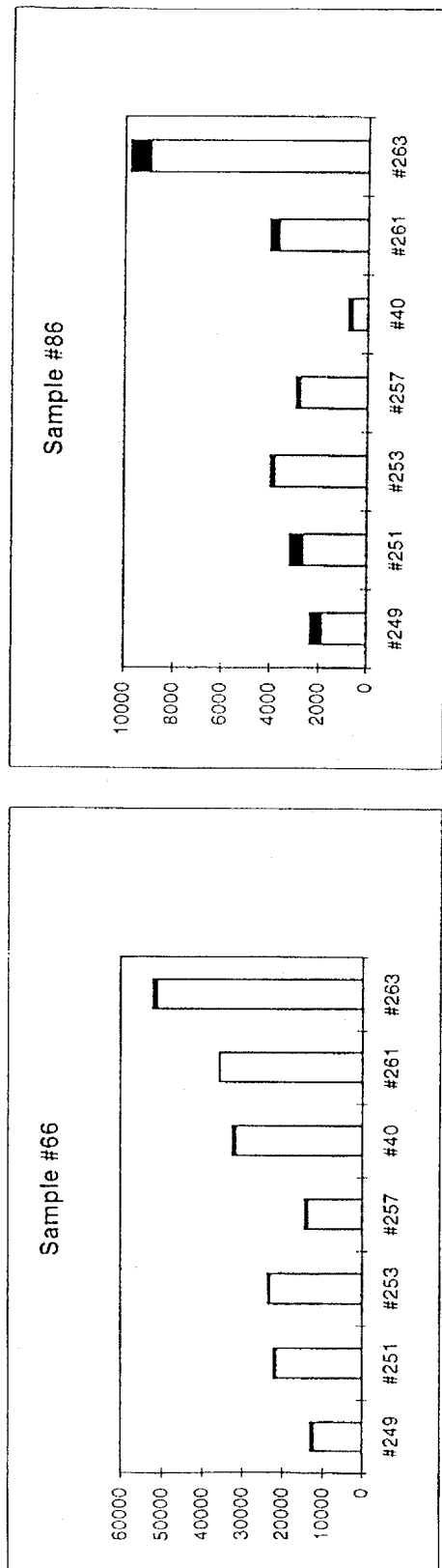


FIGURE 9D

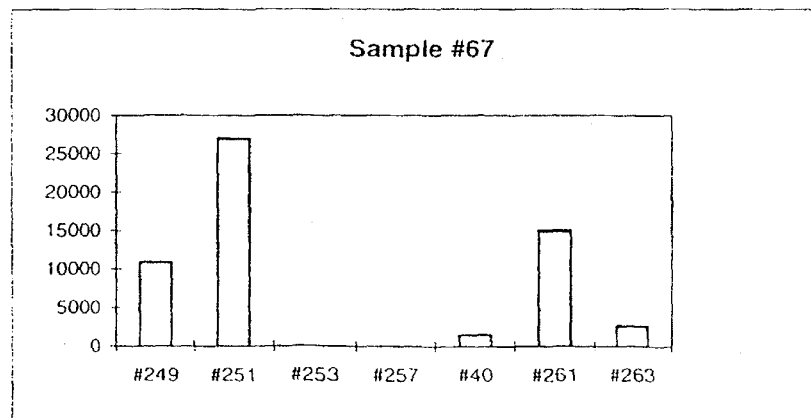
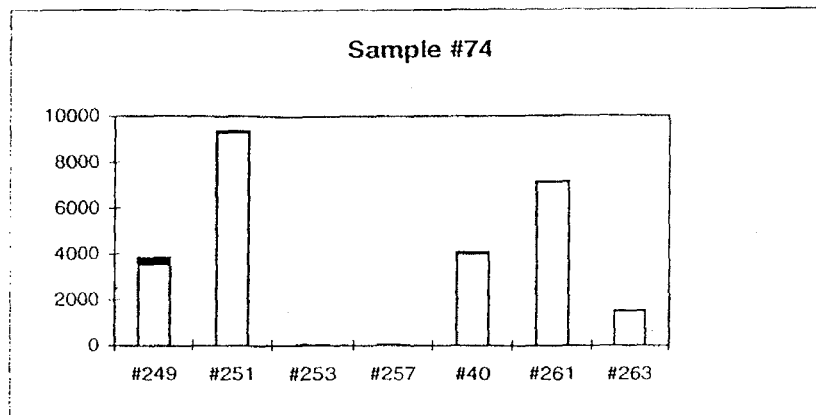


FIGURE 10

#80

A
G A
T — A
C — G
T — A
G — C
T — A
C — G
G — C
C — G

5'-FI-TGCTCTCTGGT TGGTCTCTCGTAAT-3'

#81

A
G A
T — A
C — G
T — A
G — C
T T
C C
G — C
C — G

5'-FI-TGCTCTCTGGT TGGTCTCTCGTAAT-3'

#82

G^{AA}
T
C
T
G
T
C
G
C

T
T
T
T
T
T
T

5'-FI-TGCTCTCTGGT TGGTCTCTCGTAAT-3'

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FIGURE 11A

#2) 5' Biotin

```

      |
      T   A
C   G   A
A   T—A
G   C—G
A   T—A
C   G—C
A   T—A
G   C—G
C   G—C
G   C—G

```

#80) 5' - FI-TGCTCTCTGGT TGGTCTCTCGTAAT -3'

#FD91) 3' Biotin - CGAGAGACCA - 5'

```

      A
G   A
T—A
C—G
T—A
G—C
T—A
C—G
G—C
C—G

```

#80) 5' - FI-TGCTCTCTGGT TGGTCTCTCGTAAT -3'

#78) 3' - AGACCATTACCAGA -Biotin 5'

#4) 3' - GAGACCATTACCAGAG -Biotin 5'

#79) 3' - AGAGACCATTACCAGAGA -Biotin 5'

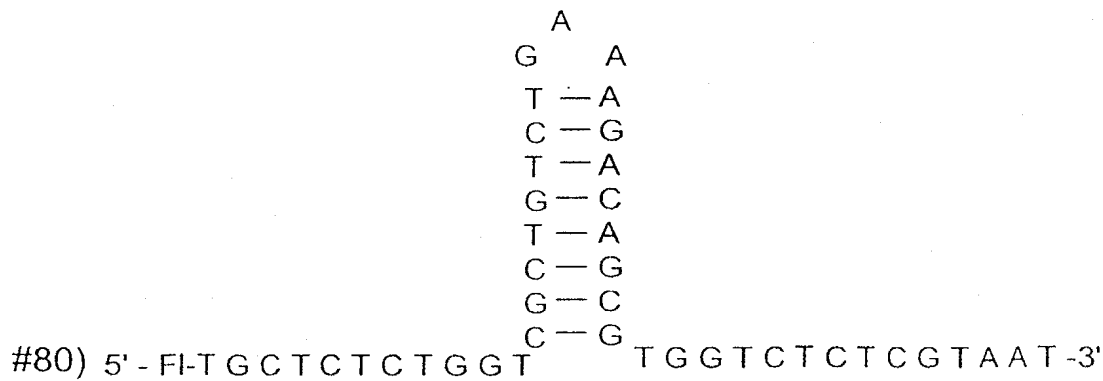
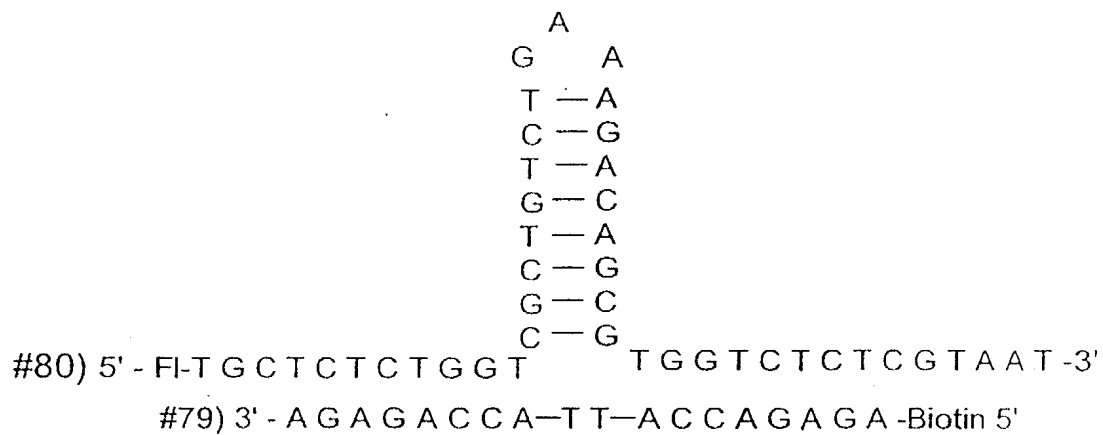


#116) 3' - AGAGACCAACCAGAGA -Biotin 5'

#117) 3' - TACCAGAGA -Biotin 5'

#118) 3' - AGAGACCAT - 5'

FIGURE 11B



3' - AGAGACCA ACCAGAGA -Biotin 5'

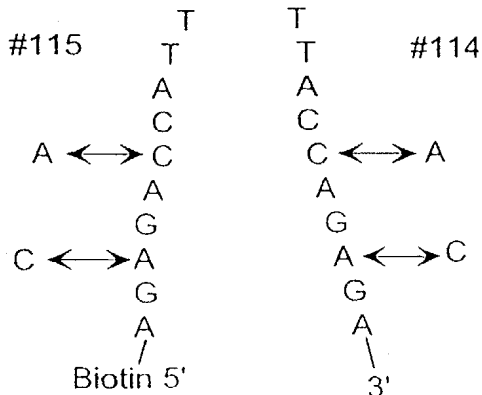
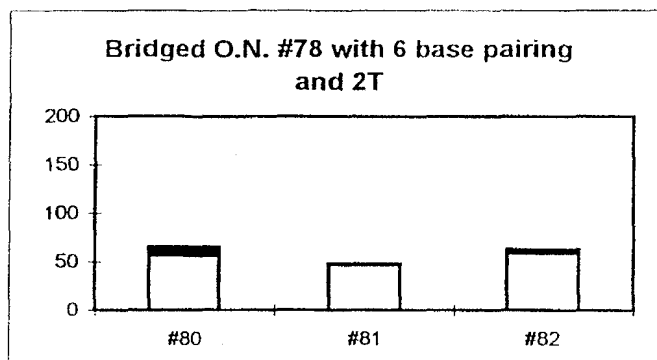
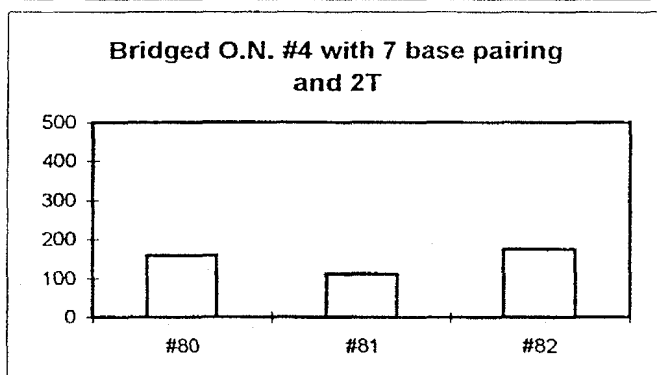


FIGURE 12

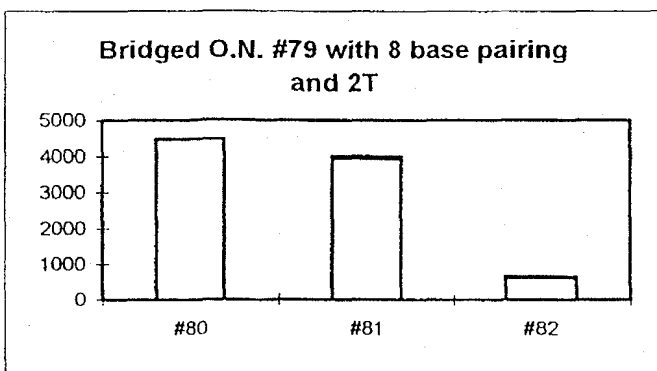
A.



B.



C.



D.

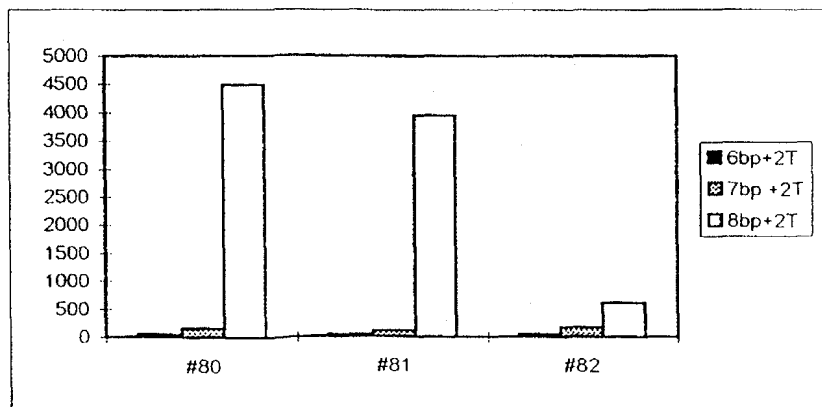


FIGURE 13A

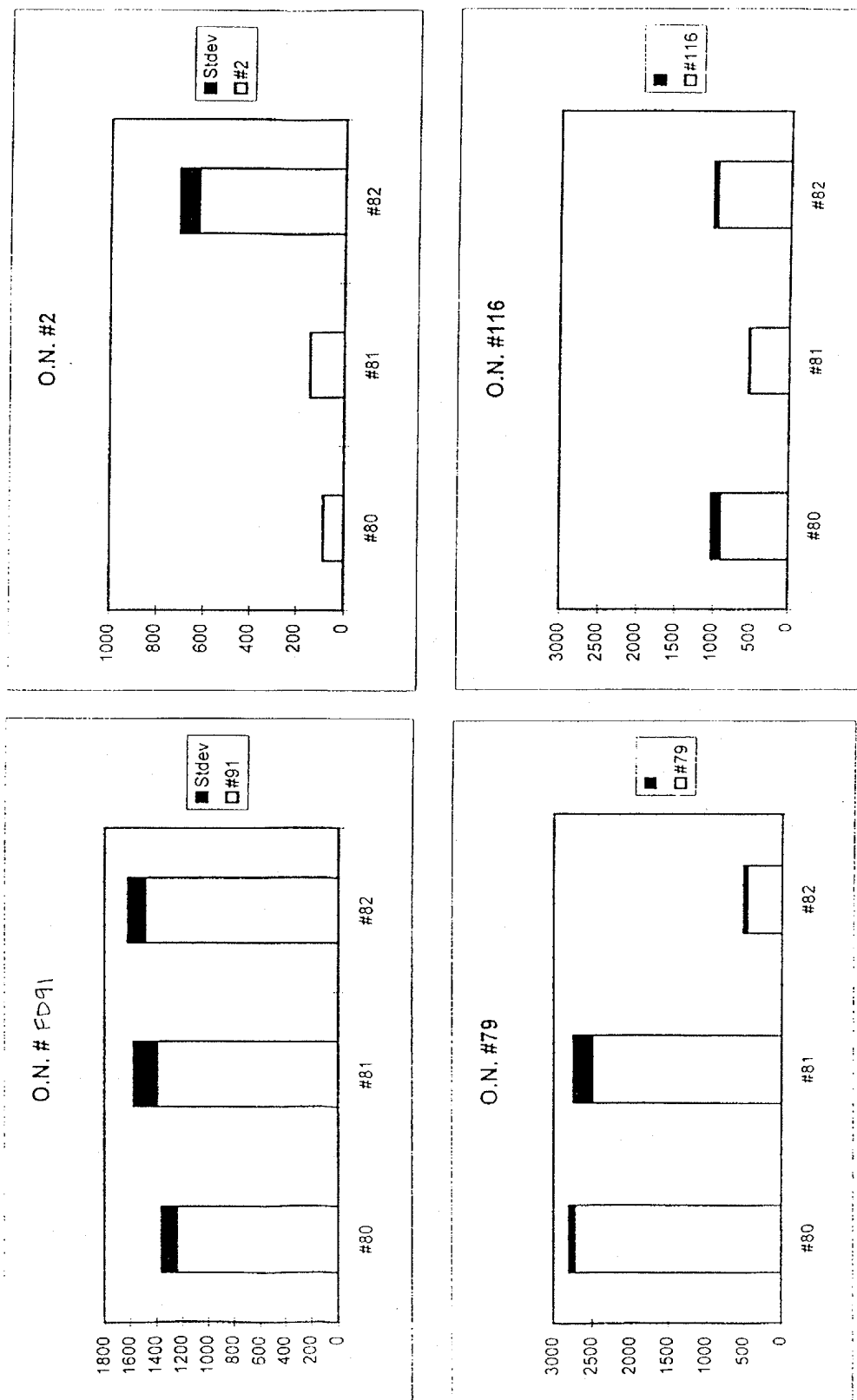


FIGURE 13B

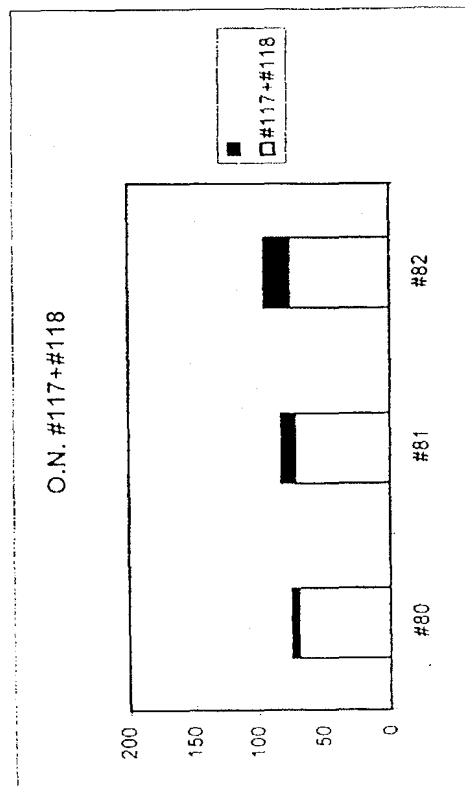
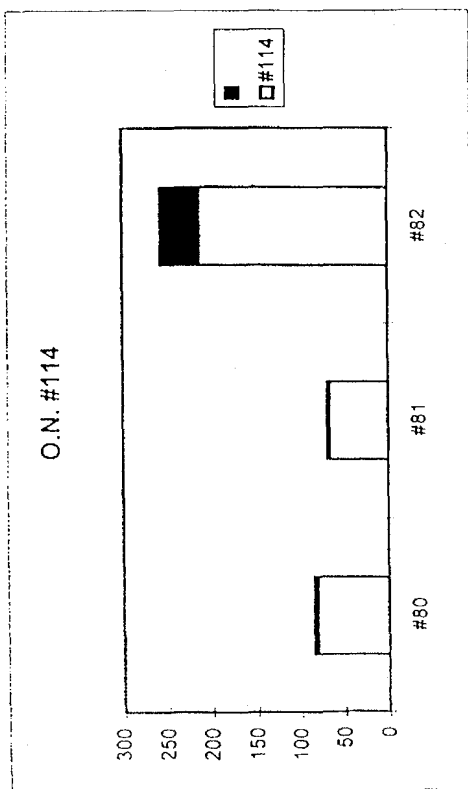
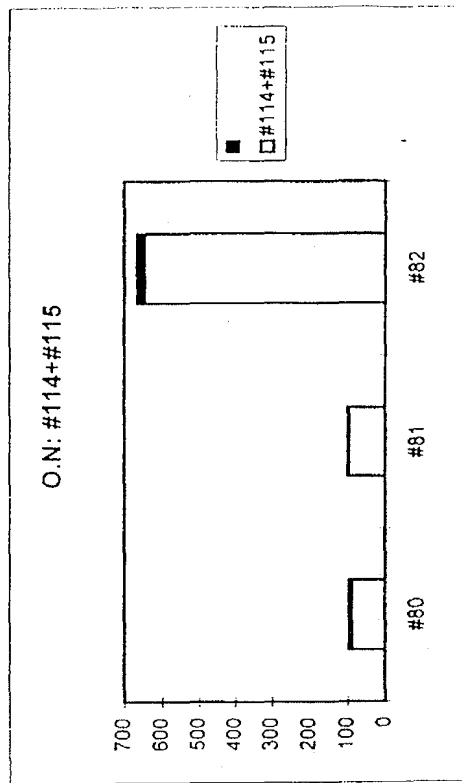
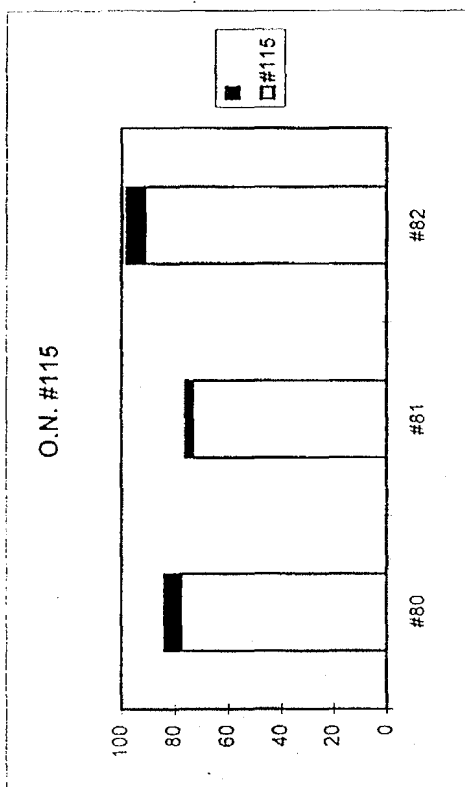
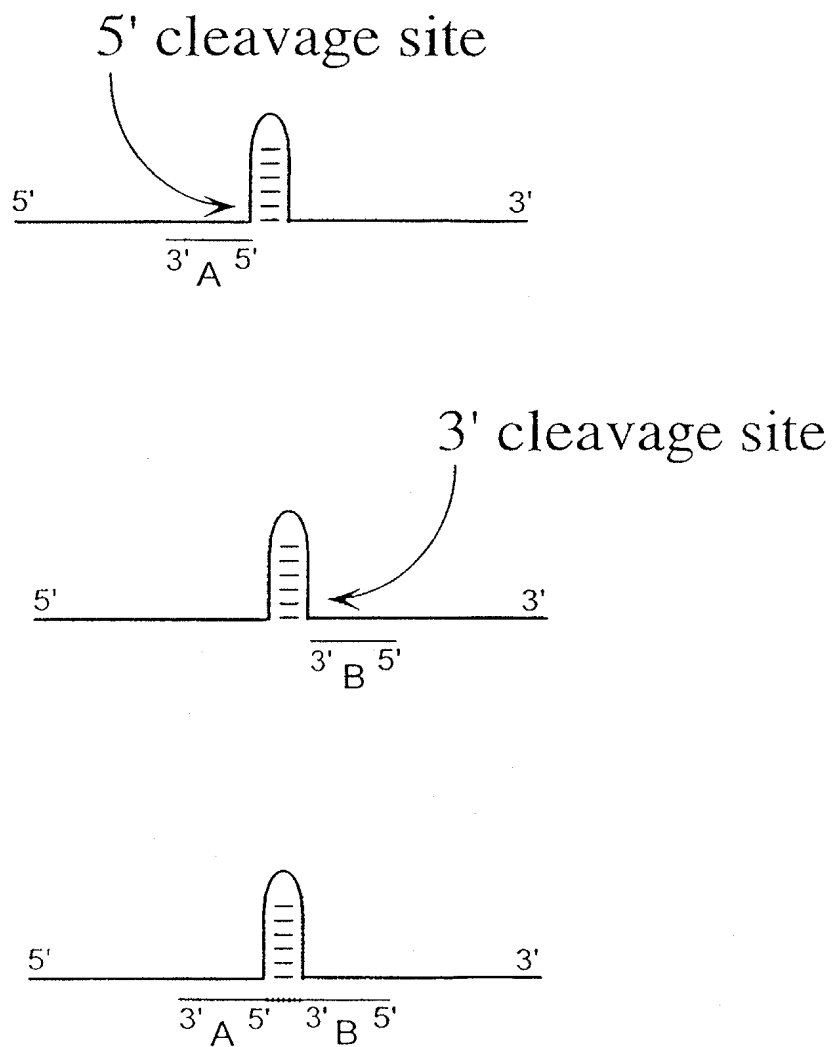


FIGURE 14



1-----10-----20-----30-----40-----50-----60-----70-----80

1a C T C G C A A G C A C C C T A T C A G G C A G T A C C A A G G C C T T T C G G C G A C C C A C A C T A C T C G G C T A G C A G T C T T G C G G G G G C A C G

1b

2a/c

3a T G A C

-----90-----100-----110-----120-----130-----140-----150-----160

1a C C C A A A T C T C A G G C A T T G A G C G G T T A T C C A A G A A G G A C C C G G T C G T C C T G G C A A T T C C G G T G T A C T C A C C G G T T C C

1b

2a/c G G A T C

3a T T G T A C C A G

-----170-----180-----190-----200-----210-----220-----230-----240-----

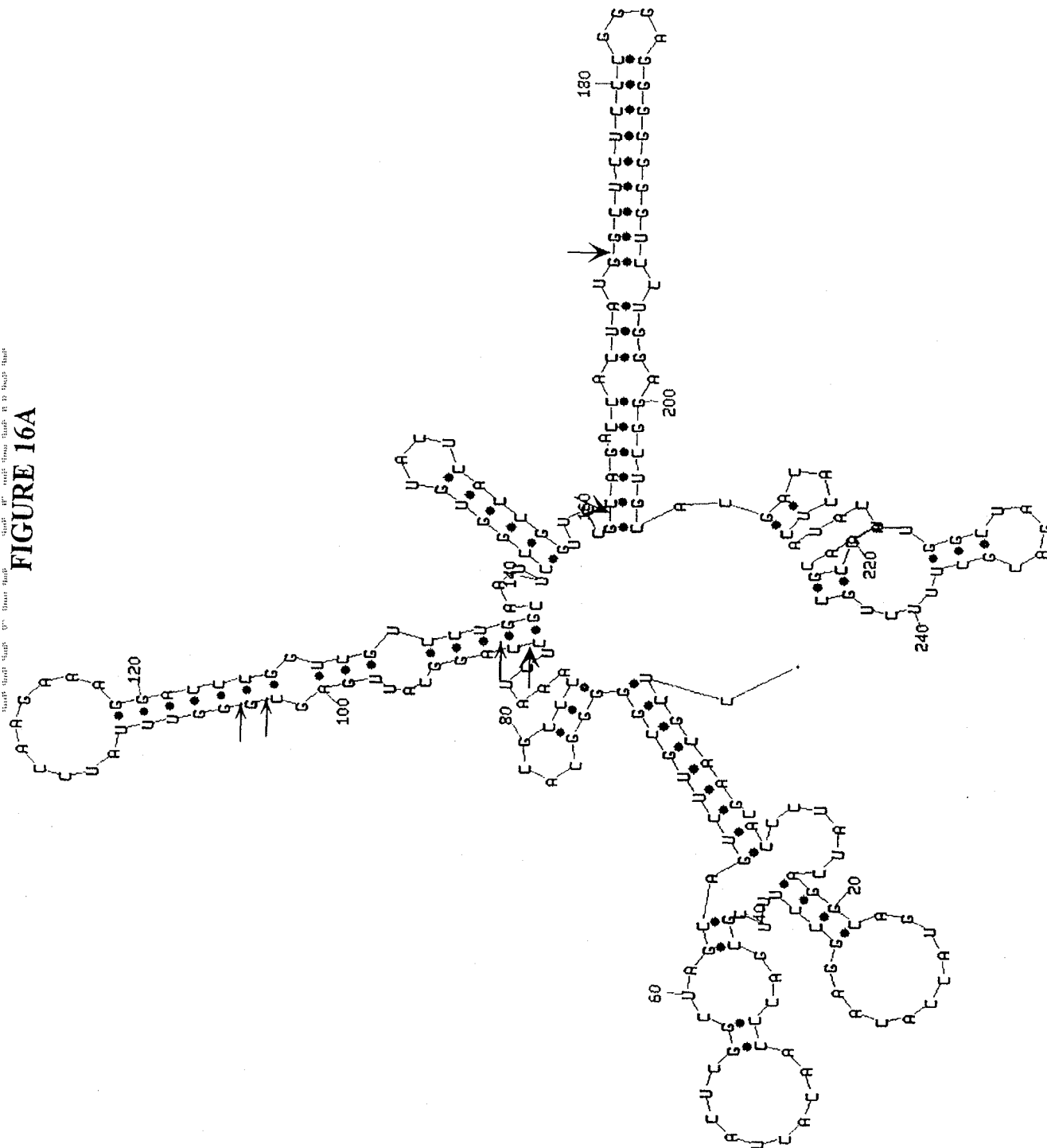
1a G C A G A C C A C T A T G G C T C T C C C G G G A G G G G G T C C T G G A G G C T G C A C G C A C T A C A T A C T A A C G C C A T G G C T A G A C G C T T T C T G C

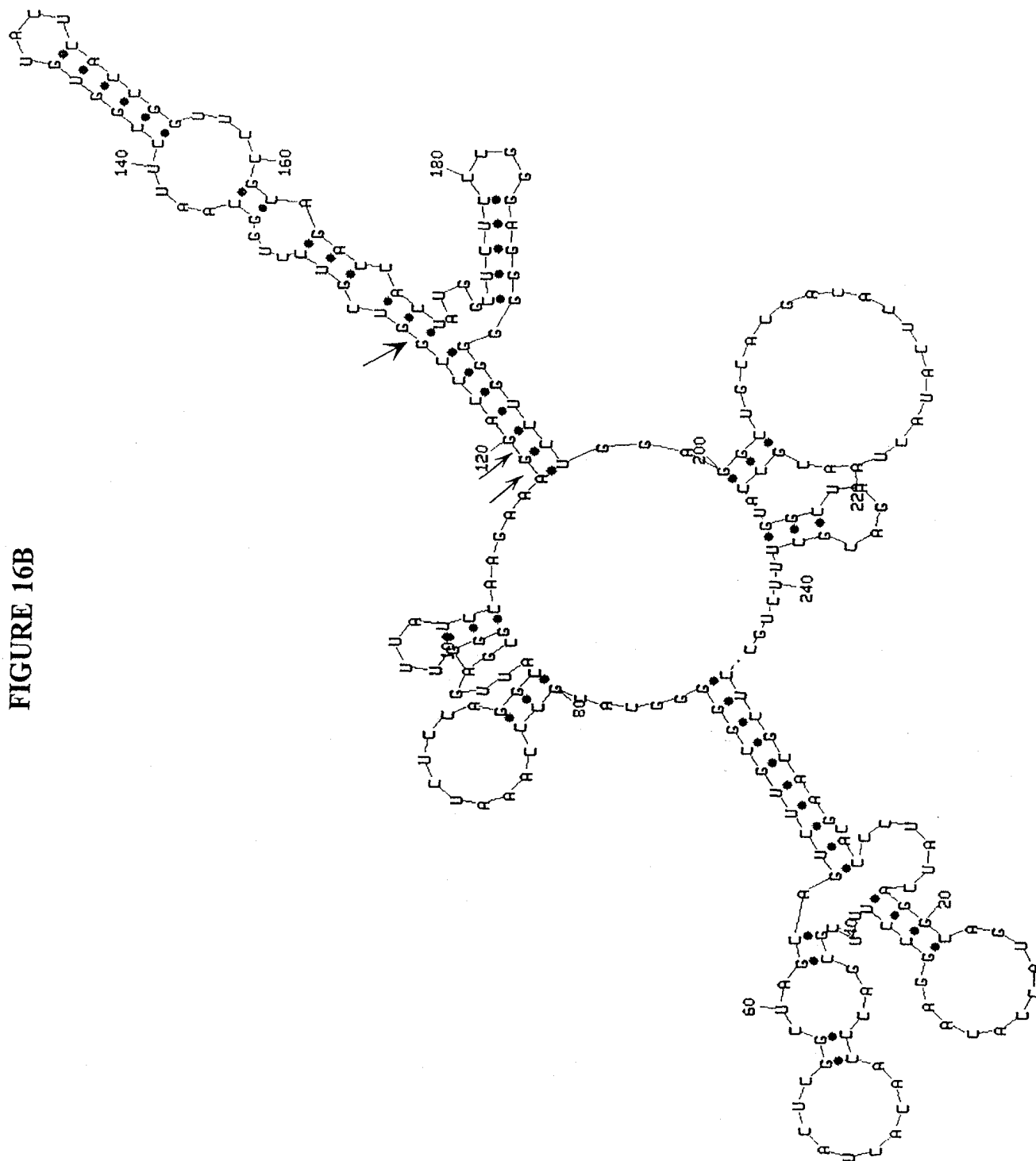
1b

2a/c

3a

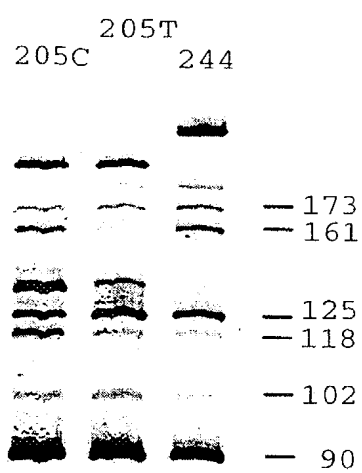
FIGURE 16A





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FIGURE 17A



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FIGURE 17B

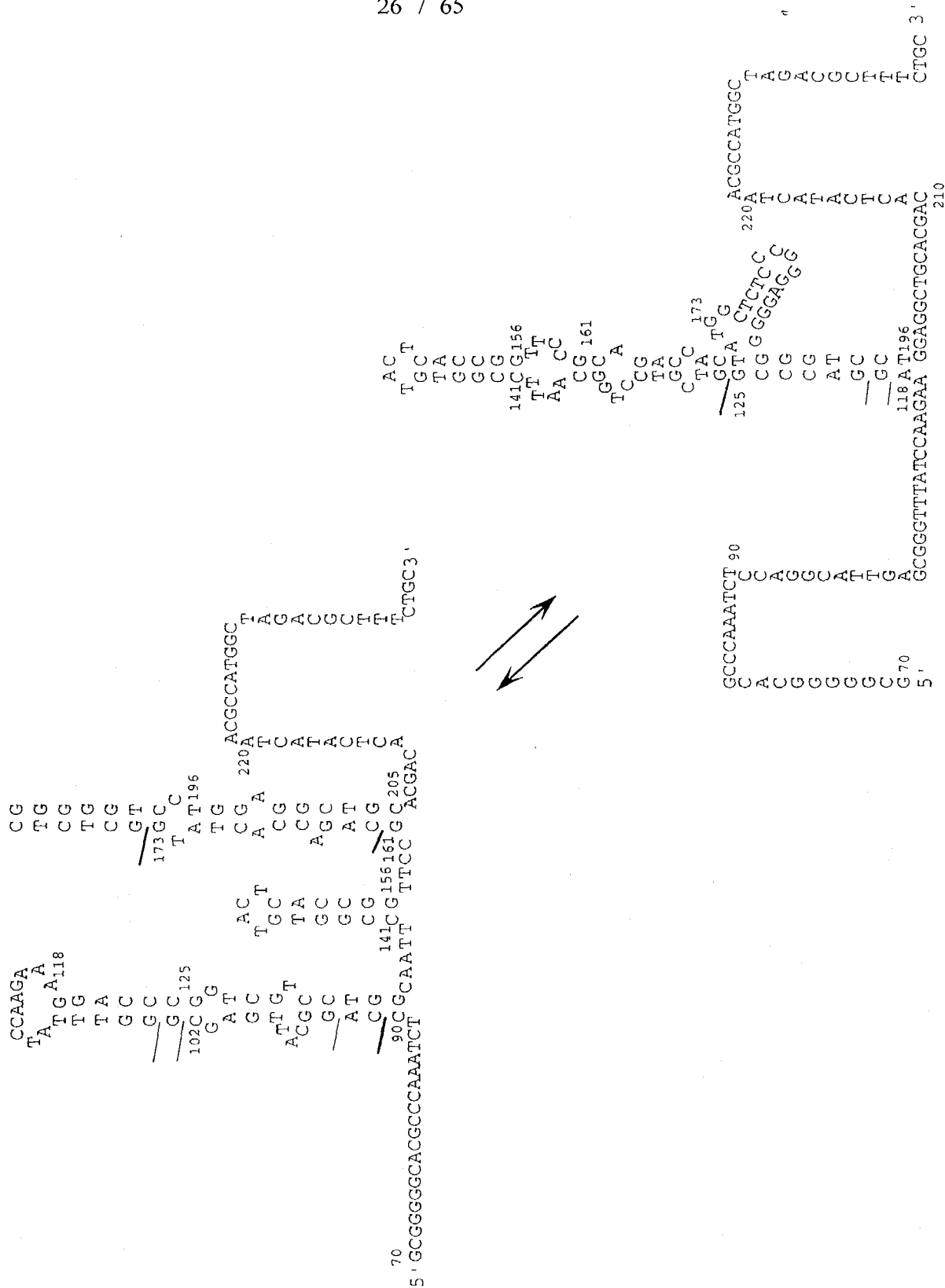


FIGURE 17C

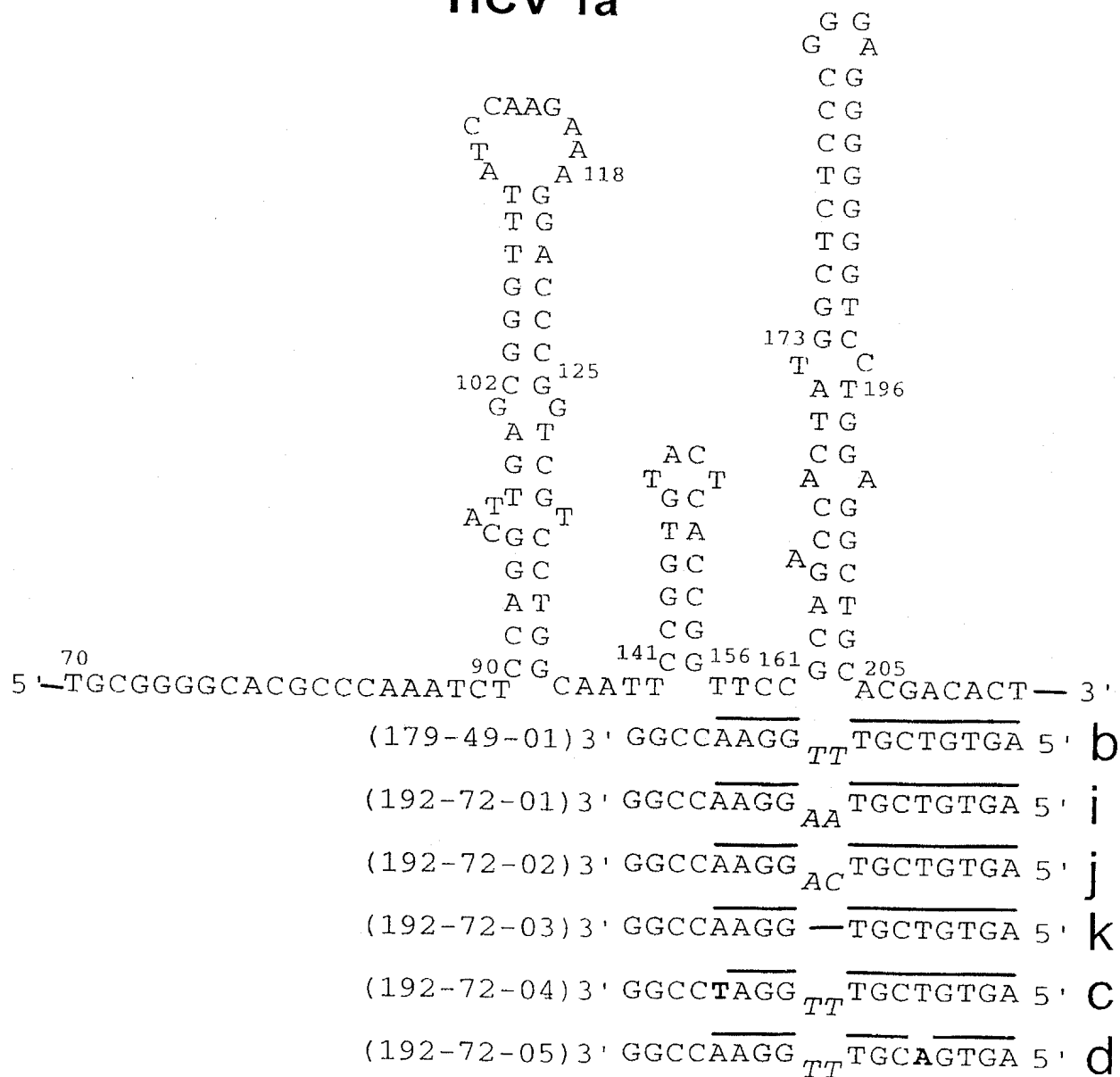
5' Biotin—AAATCT⁹⁰CG CAATT TTCC¹⁴¹CG¹⁵⁶161G²⁰⁵ACGACACT—3'
(179-49-01)3'—GGCCAAAGG TT TGCTGTGA—Fl-5' b
(#81-01)3'—TTAA TT AAGG TT TGCTGTGA—Fl-5' n

5'Biotin—TCCAAGAA GGAGGCTG—3'

m (#81-04) 3'-AGGTTCTT_{CC} CCTCCGAC—F1-5'

FIGURE 18A

HCV 1a



HCV 1b

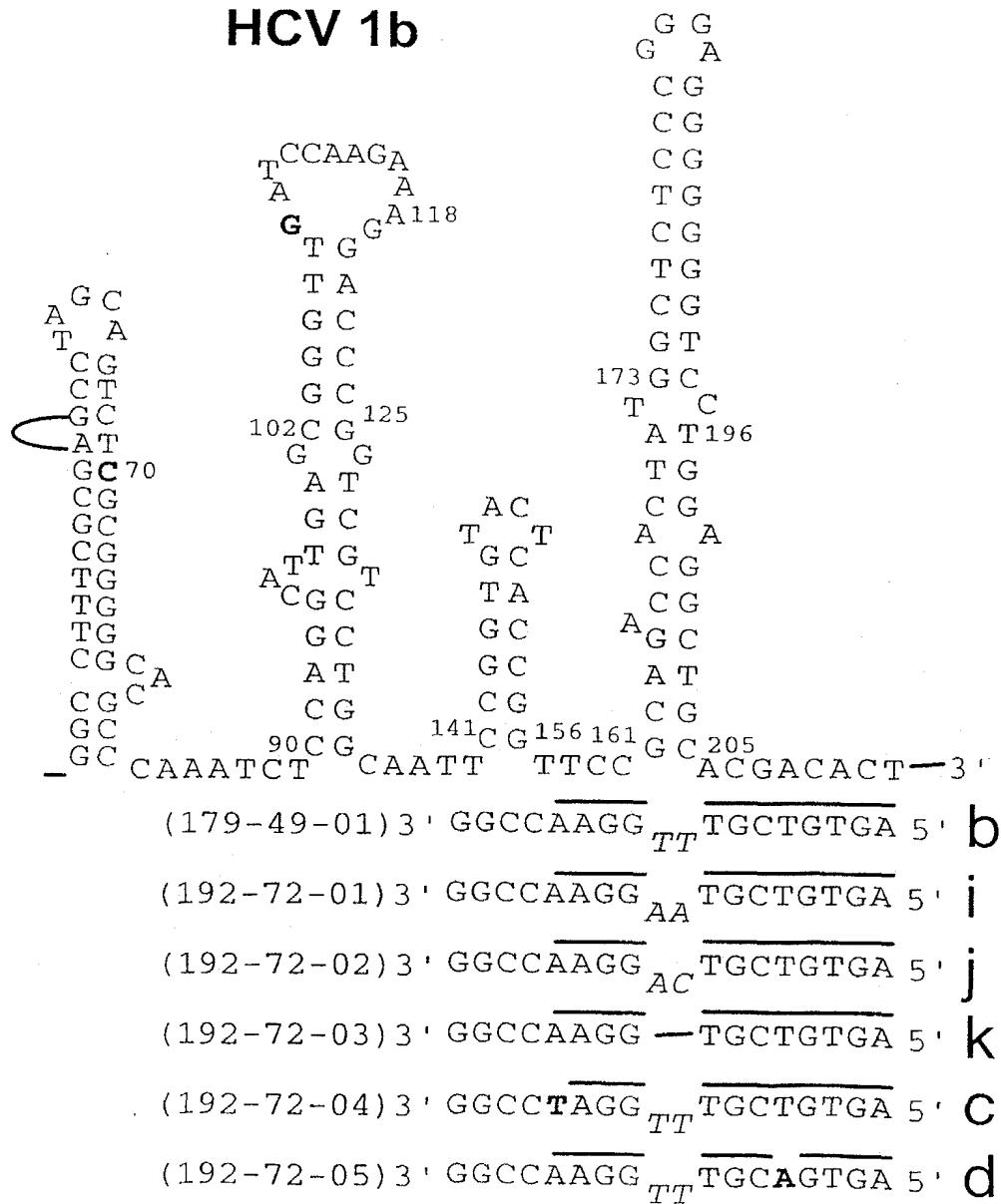


FIGURE 18C

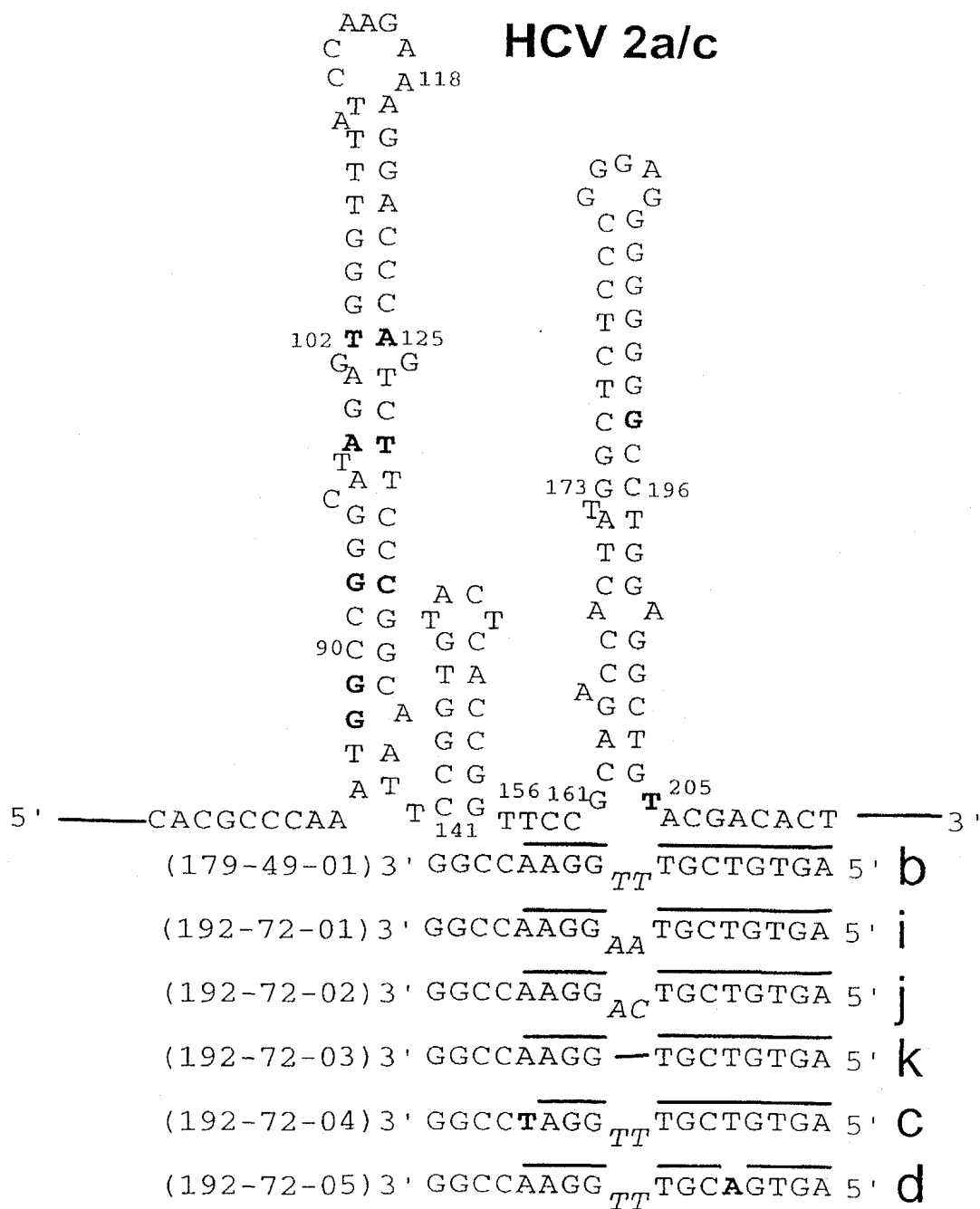
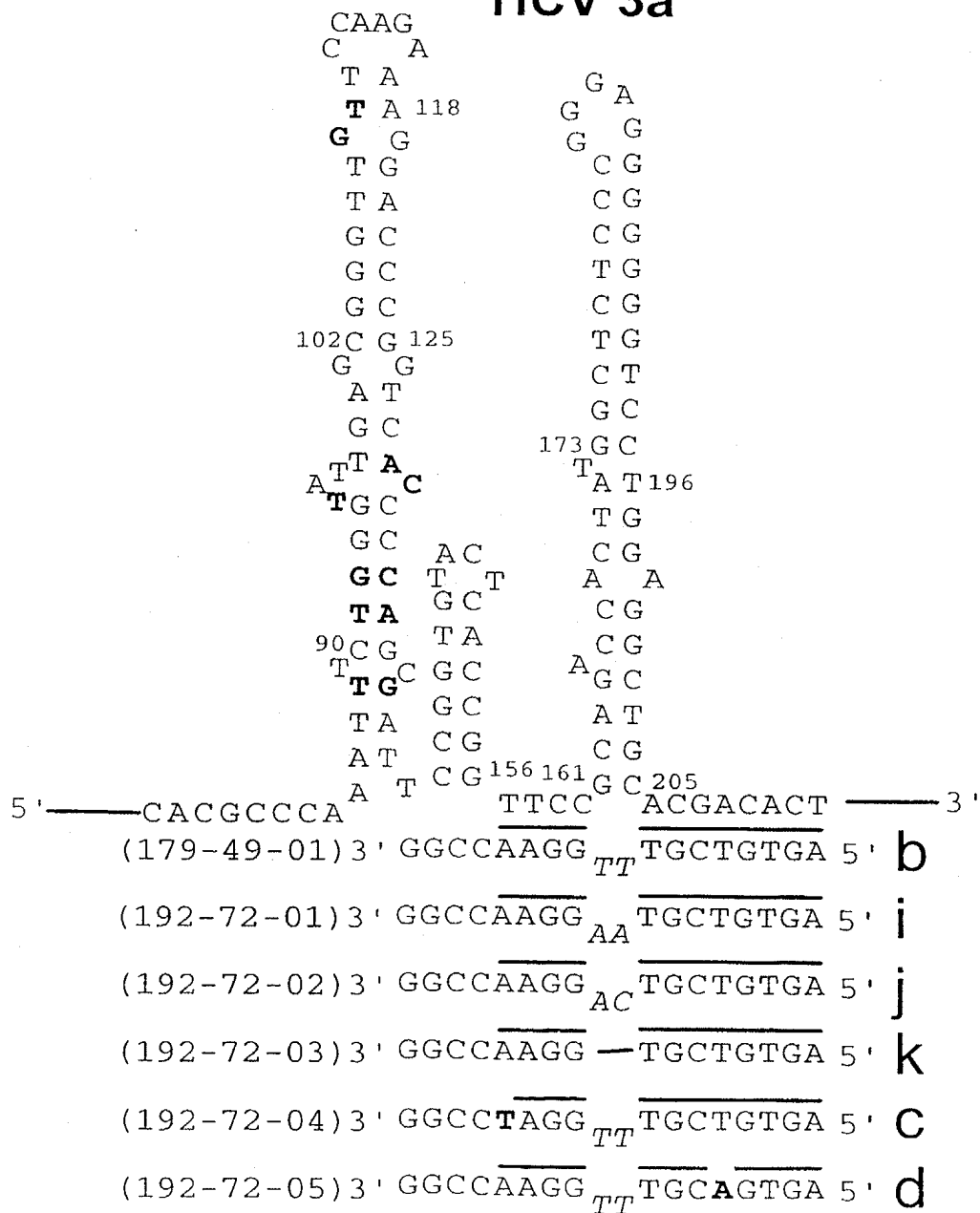


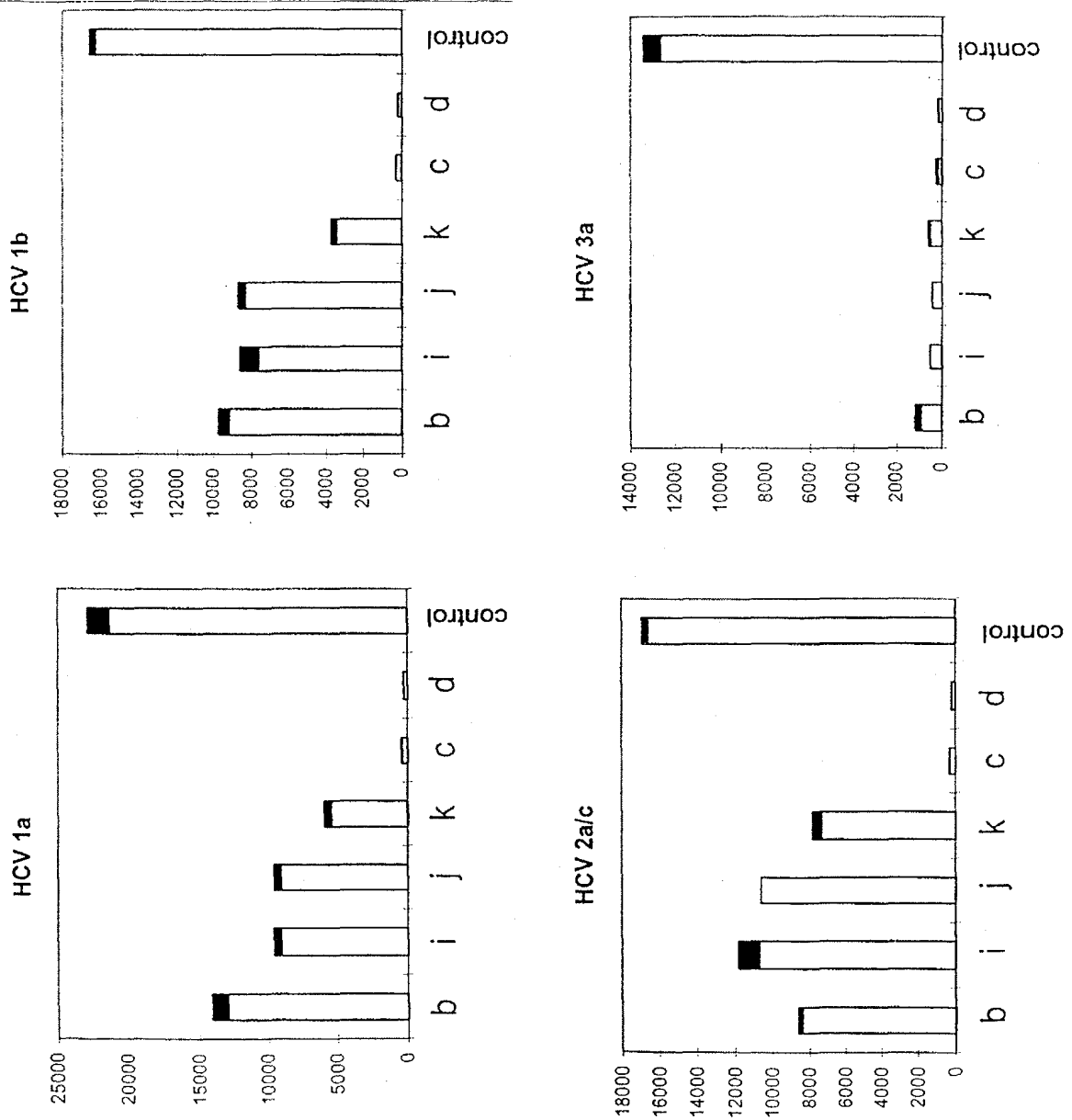
FIGURE 18D

HCV 3a



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FIGURE 19



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[illegible]

FIGURE 20A

HCV 1a

G G
 G A
 C G
 C G
 C G
 T G
 C G
 T G
 C G
 G T
 173 G C
 T A T¹⁹⁶
 T G
 C G
 A A
 C G
 C G
 A G C
 A T
 C G
 G C²⁰⁵
 A C G

HCV 1a

5'-CAATCCGGTGTA CCGGTTCC

a 3' - GGCCAAAGGCGTCTGGTGA - Fl' 5' (205-13-02)

b 3' - GGCCAAAGG _{TT} TGCTGTGA - Fl' 5' (179-49-01)

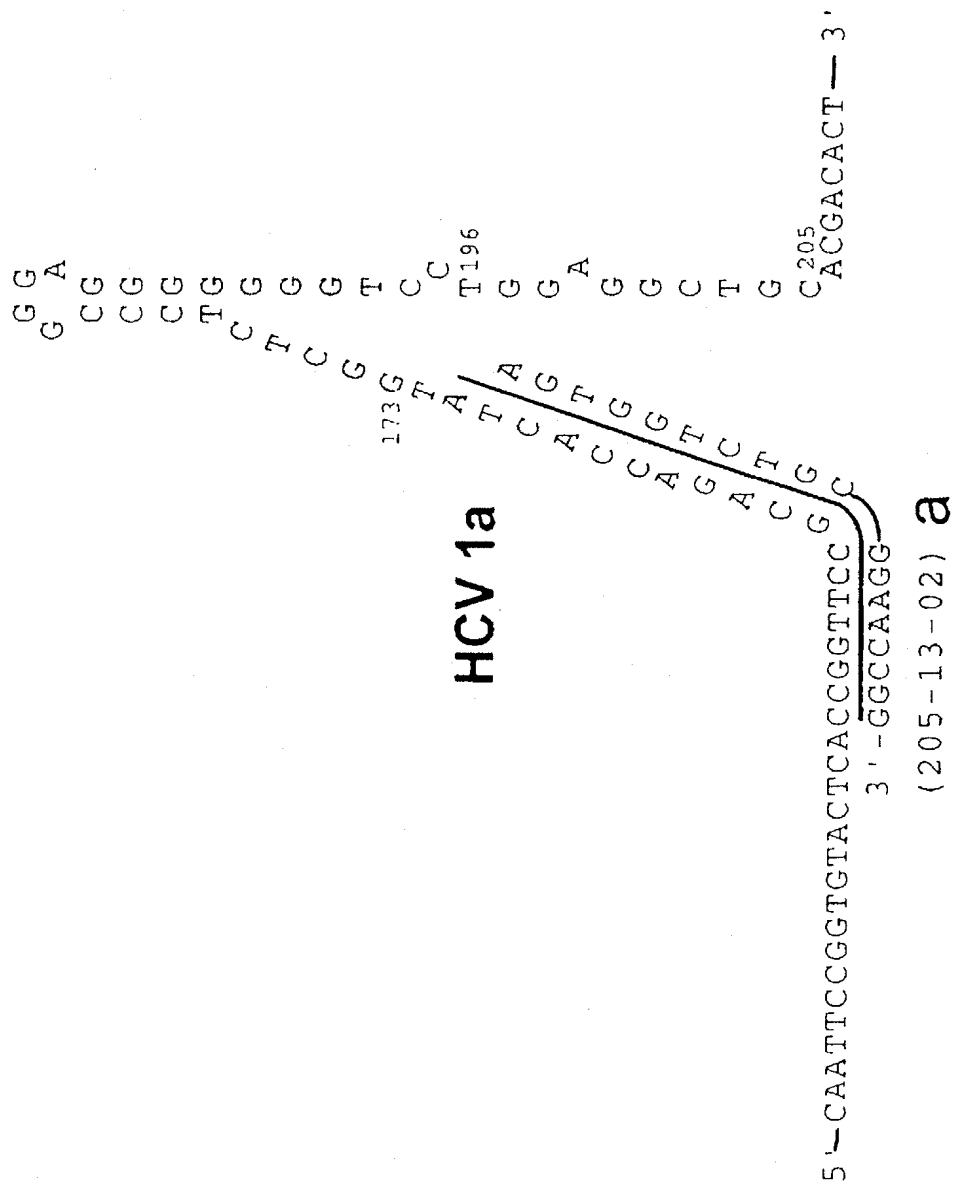
c 3' - GGCC **T**AGG _{TT} TGCTGTGA - Fl' 5' (192-72-04)

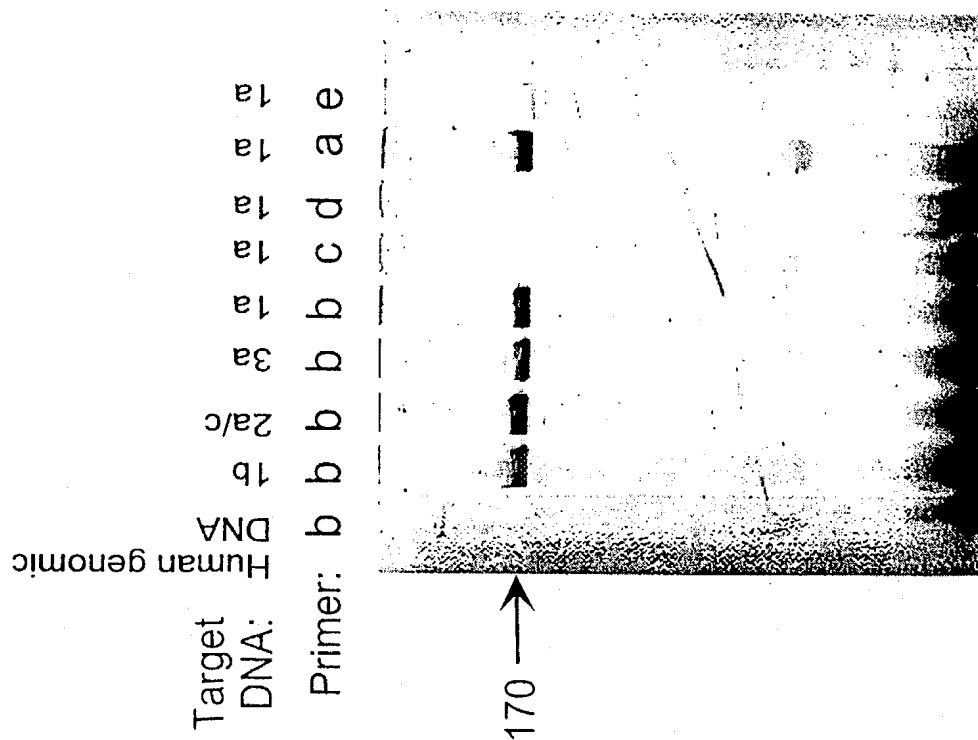
d 3' - GGCCAAAGG _{TT} TGCCAGTGA Fl' 5' (192-72-05)

e 3' - GGCCAAAGG - Fl' 5' (205-27-01)

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FIGURE 20B



[illegible]

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FIGURE 22

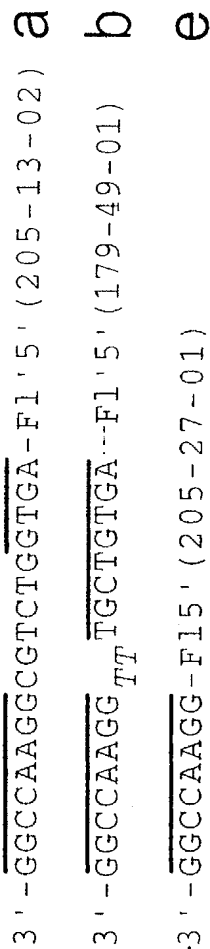
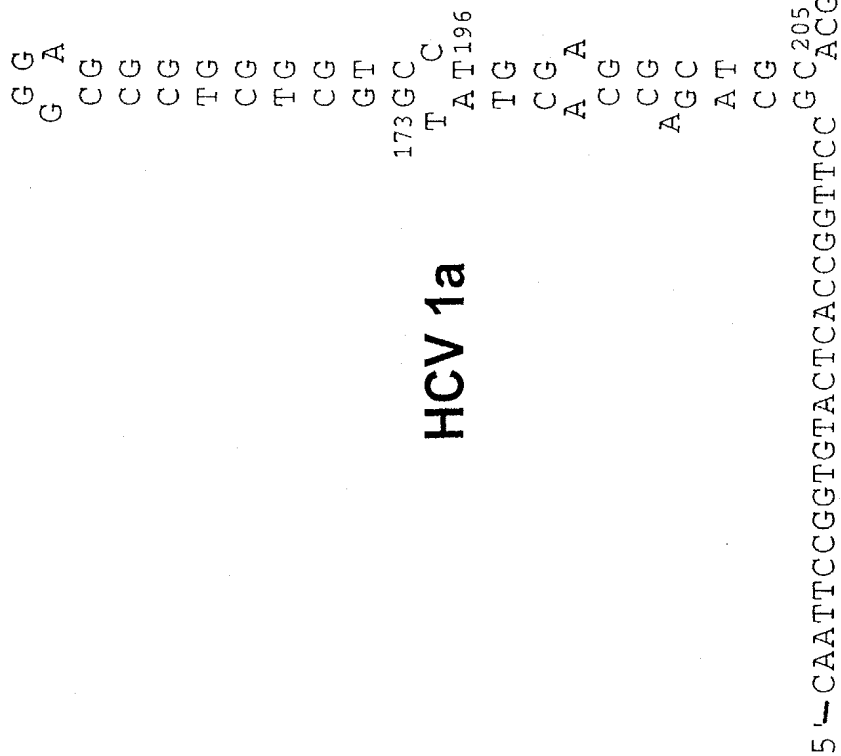
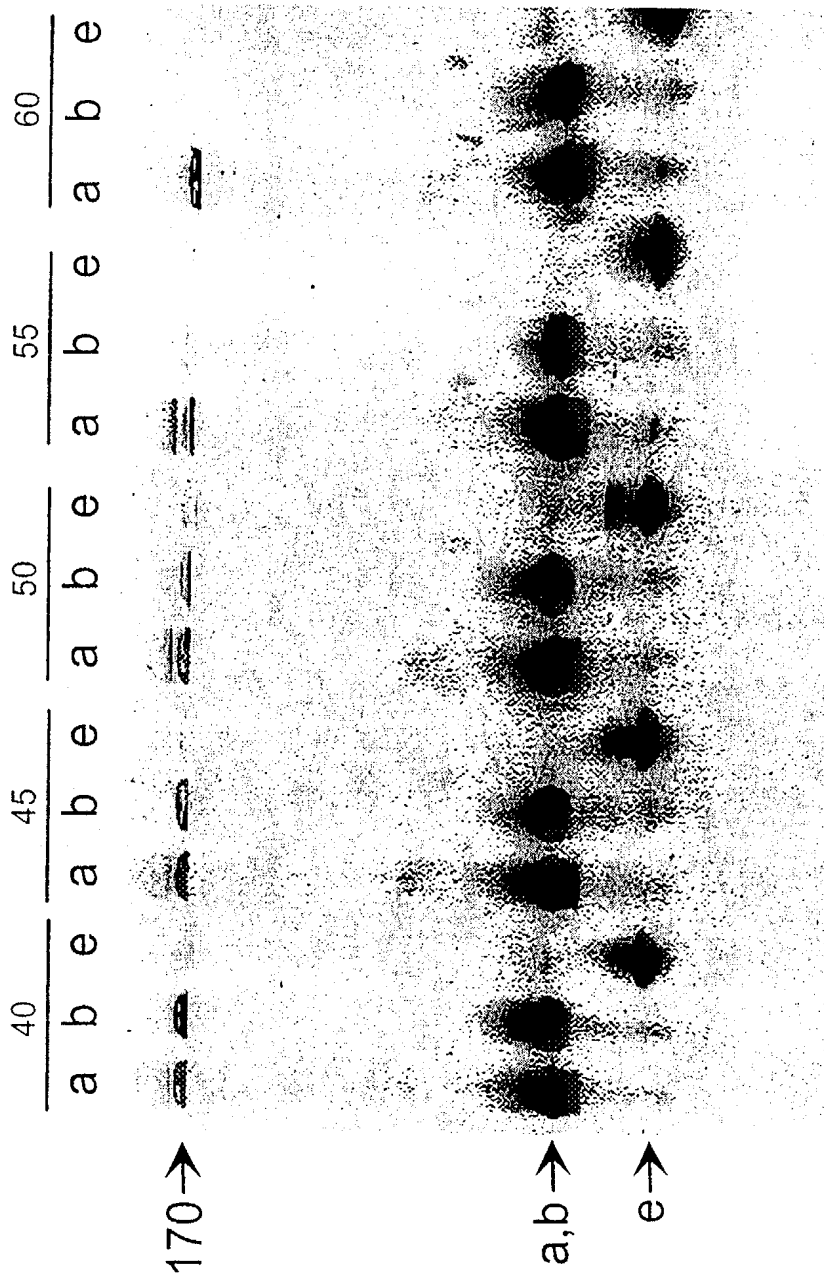


FIGURE 23



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FIGURE 24

GenBank: AF044500

GG
GA
CG
CG
CG
TG
CG
TG
CG
GT
173GC
TAT¹⁹⁶
TG
CG
AA
CG
CG
AGC
AT
CG
GC²⁰⁵

HCV 1a

5'-CAATCCGGTGTAACCGGTTCCACGACACT-3'

f (192-96-01) 3'-TAAGGCCACATGAGT-5'

3'-GGCCAAAGCGTCTGGTGA-F1'5' (205-13-02) a

3'-GGCCAAAGTTTGCTGTGA F1'5' (179-49-01) b

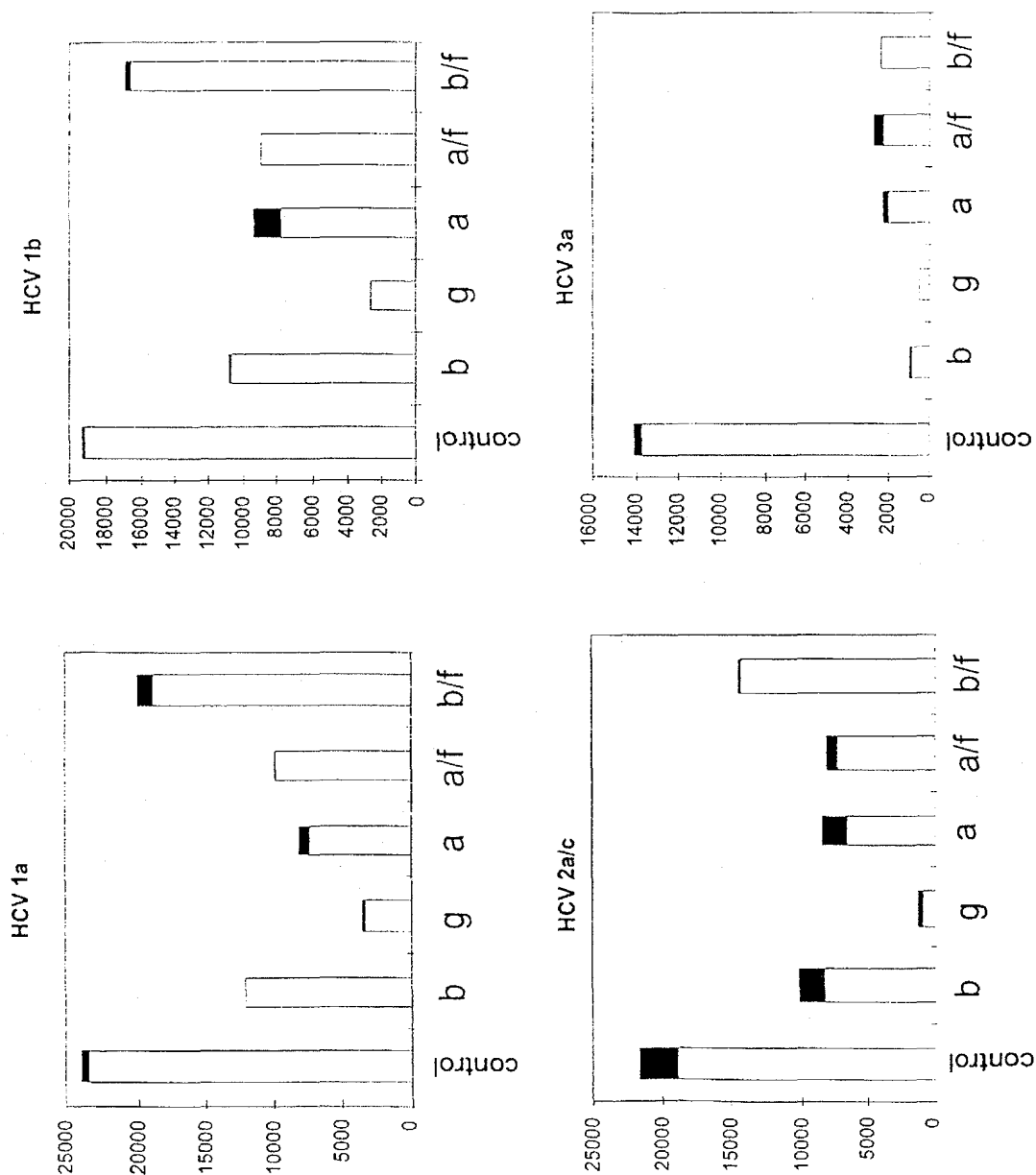
3'-GGCCCTAGGTTTGCTGTGA-F1'5' (192-72-04) c

3'-GGCCAAAGTTTGCAGTGA-F1'5' (192-72-05) d

3'-GGCCAAAG-F15' (205-27-01) e

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FIGURE 25



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FIGURE 26

f (192-96-01) 5'-ATTCCGGTGTA^{CT}CACCGGTTCCAAACGACACT-3' (205-13-01) S.T.
3'-TAAGGCCACATGAGT-5'
3'-GGCCAAGGCGTCTGGTGA-Fl'5' (205-13-02) a
3'-GGCCAAGG_{TT}TGCTGTGA-Fl'5' (179-49-01) b
3'-GGCC^TAGG_{TT}TGCTGTGA-Fl'5' (192-72-04) c
3'-GGCCAAGG_{TT}TGCAGTGA Fl'5' (192-72-05) d
3'-GGCCAAGG-Fl'5' (205-27-01) e

FIGURE 27

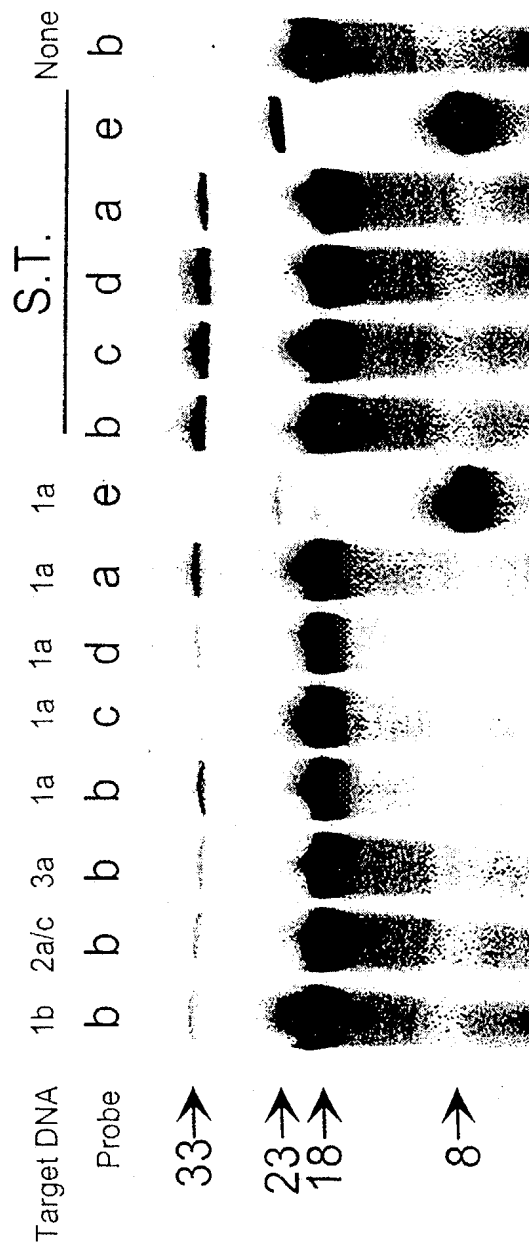
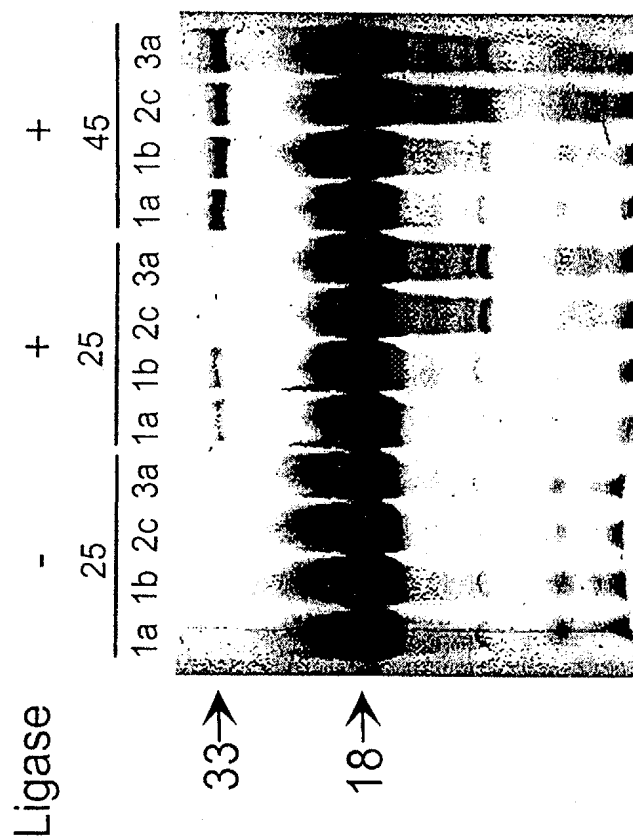


FIGURE 28



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FIGURE 29A

5'-CAATTCGGGTACTCACC GGTTCC G C²⁰⁵ ACGACACT--3'

G G A

CG

CG

CG

TG

CG

TG

CG

GT

173 G C

T C

A T¹⁹⁶

TG

CG

A A

CG

CG

AGC

AT

CG

HCV 1a

5'-CAATTCGGGTACTCACC GGTTCC G C²⁰⁵ ACGACACT--3'

3'-GGCCAAAGCGTCTGGTGA-F1'5' (205-13-02) a

3'-GGCCAAAGG_{TT} TGCTGTGA-F1'5' (179-49-01) b

3'-GGCC^TTAGG_{TT} TGCTGTGA-F1'5' (192-72-04) c

3'-GGCCAAAGG_{TT} TGCAGTGA-F1'5' (192-72-05) d

3'-GGCCAAAGG-F15' (205-27-01) e

g 3'-TAAGGCCACATGAGTG_{TT} T_T T-F1'5' (192-96-02)

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FIGURE 29B

5'-ATTCCGGTGTA CTACCCGGTTCCAAACGACACT-3' (205-13-01) S.T.

3'-GGCCAAAGCGCTCTGGTGA-F1'5' (205-13-02) a

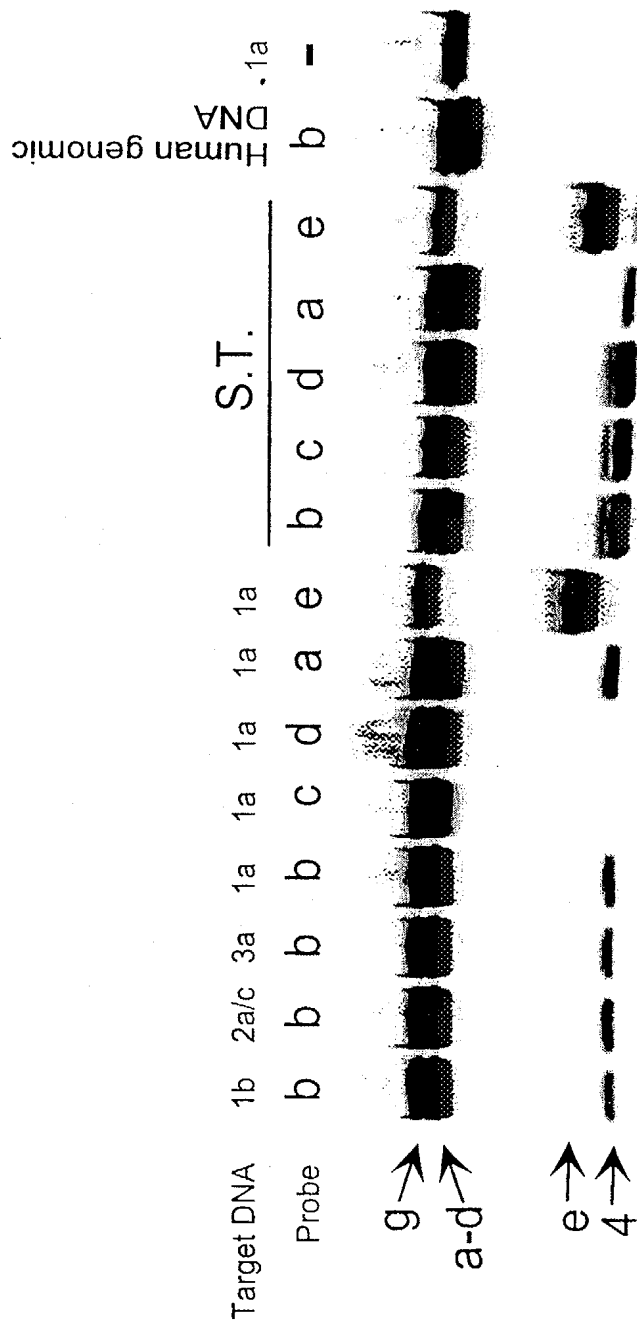
3'-GGCCAAAGG_{TT} TGCTGTGA--F1'5' (179-49-01) b

3'-GGCCTAGG_{TT} TGCTGTGA--F1'5' (192-72-04) c

3'-GGCCAAAGG_{TT} TGCA GTGA--F1'5' (192-72-05) d

3'-GGCCAAAGG-F15' (205-27-01) e

g 3'-TAAGGCCACATGAGTG_{TT} T_{TT}-F1'5' (192-96-02)

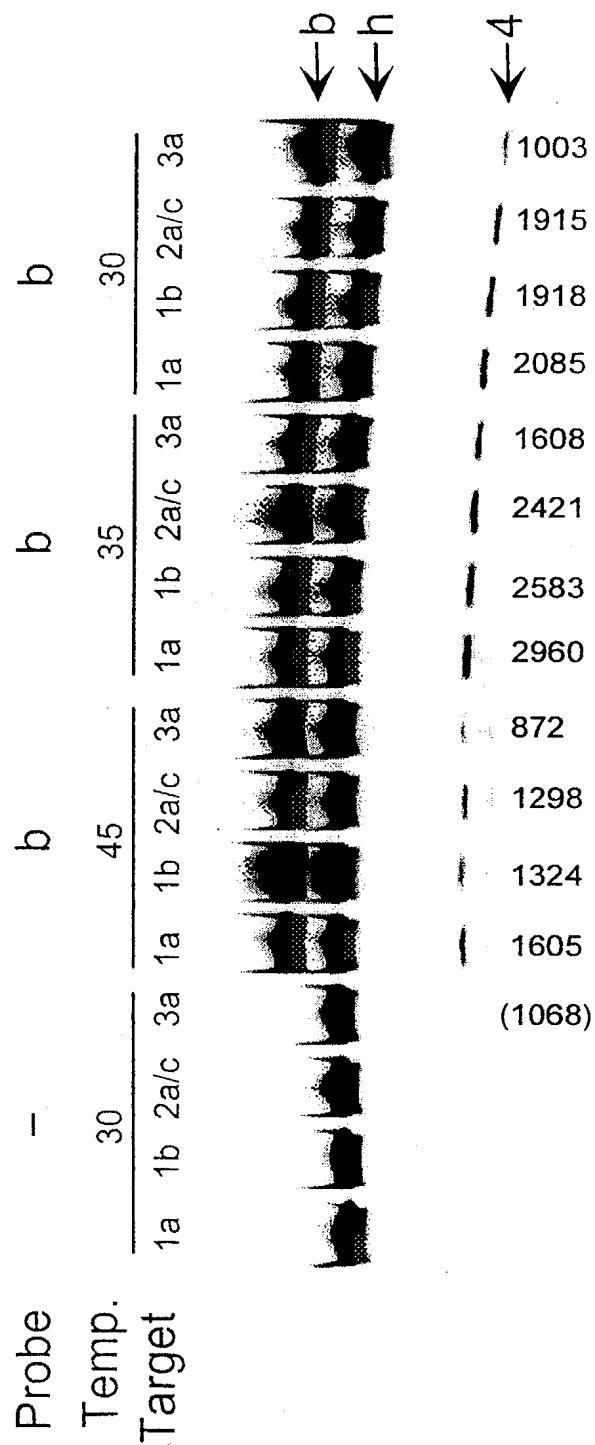


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FIGURE 31

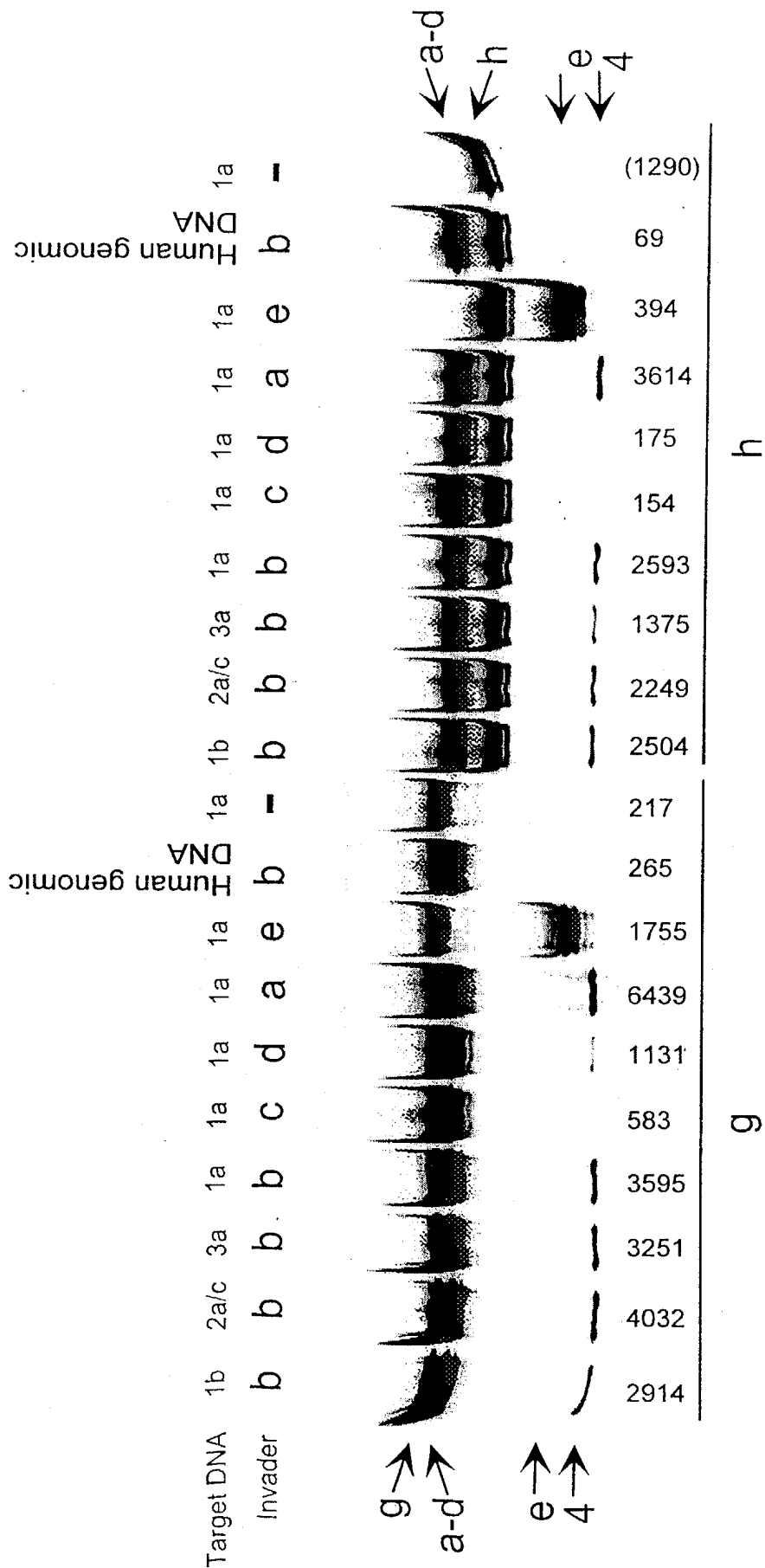


FIGURE 32



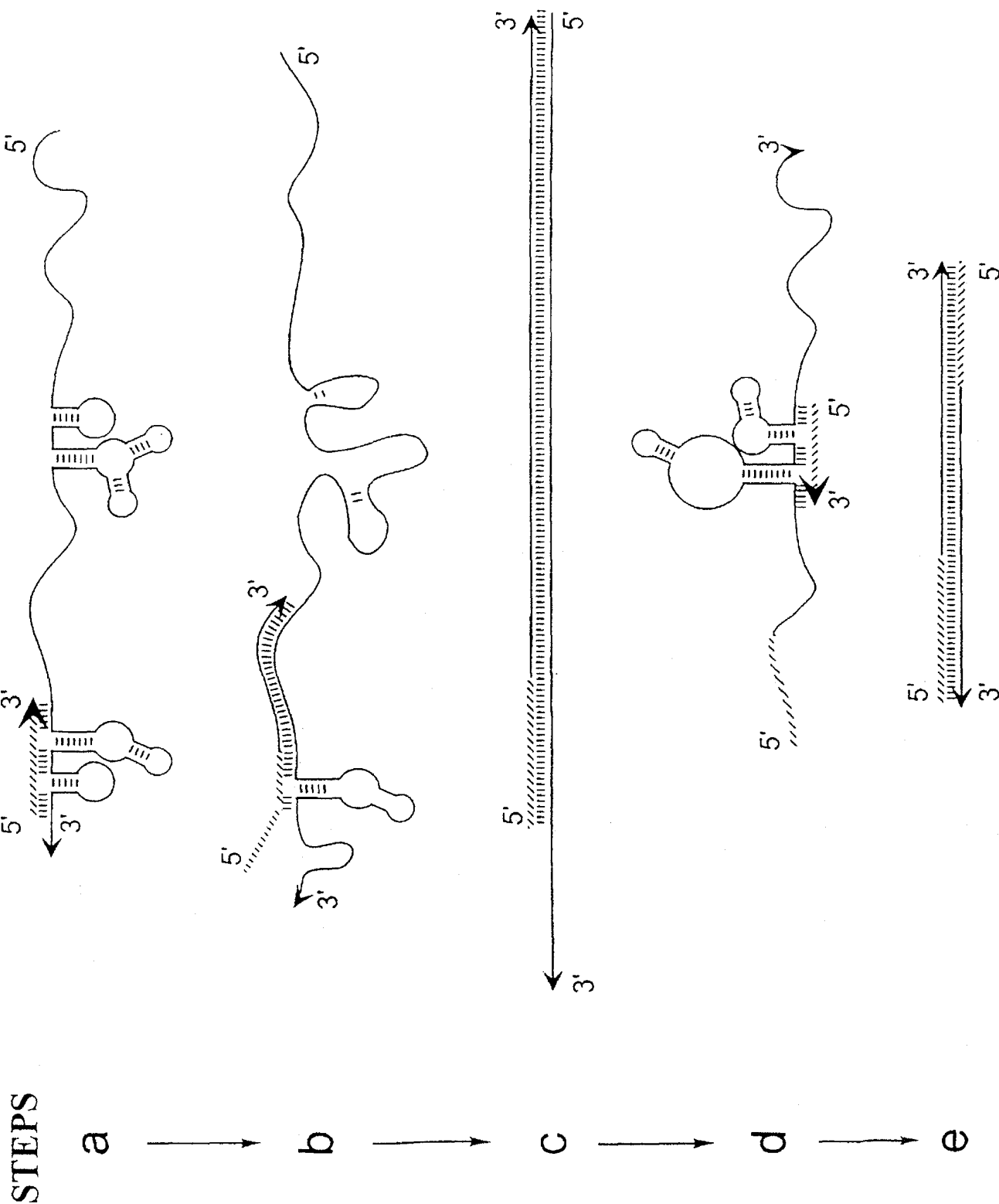
402618

FIGURE 33



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FIGURE 34



STEPS

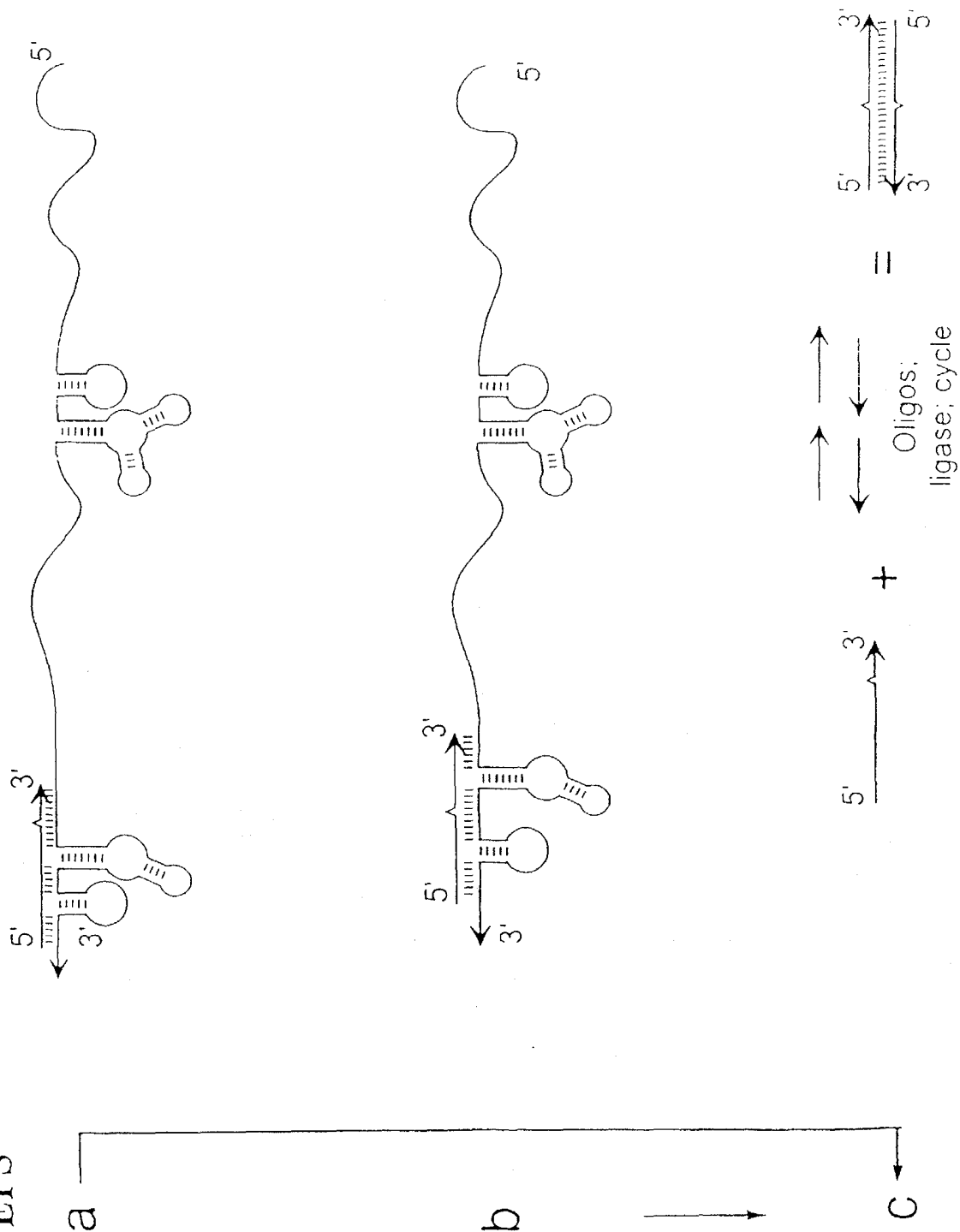
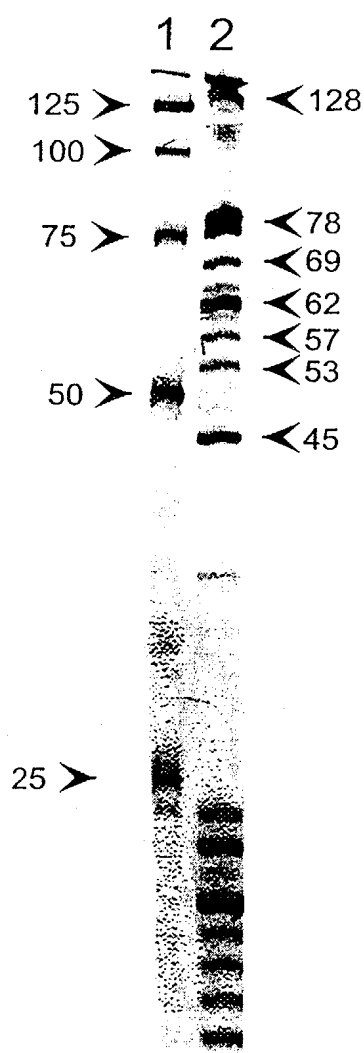
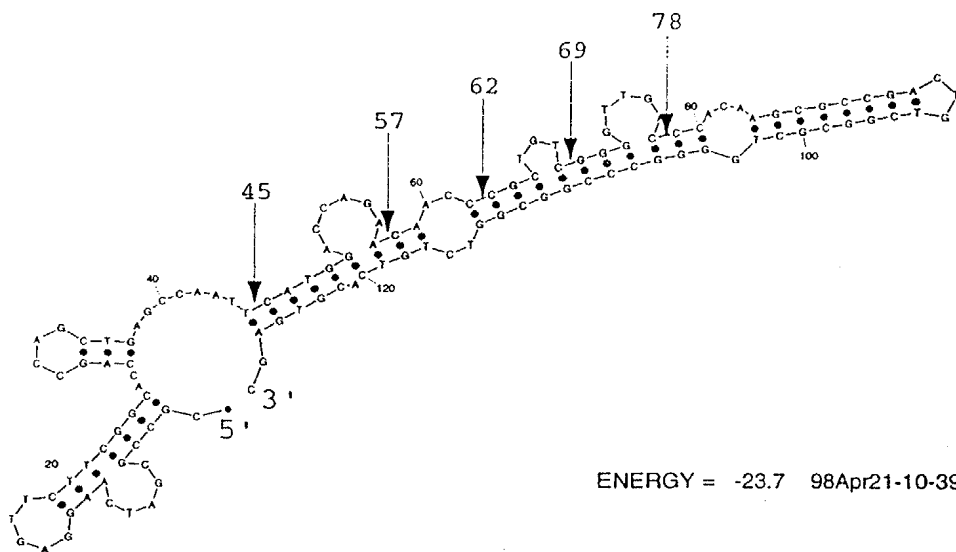


FIGURE 36

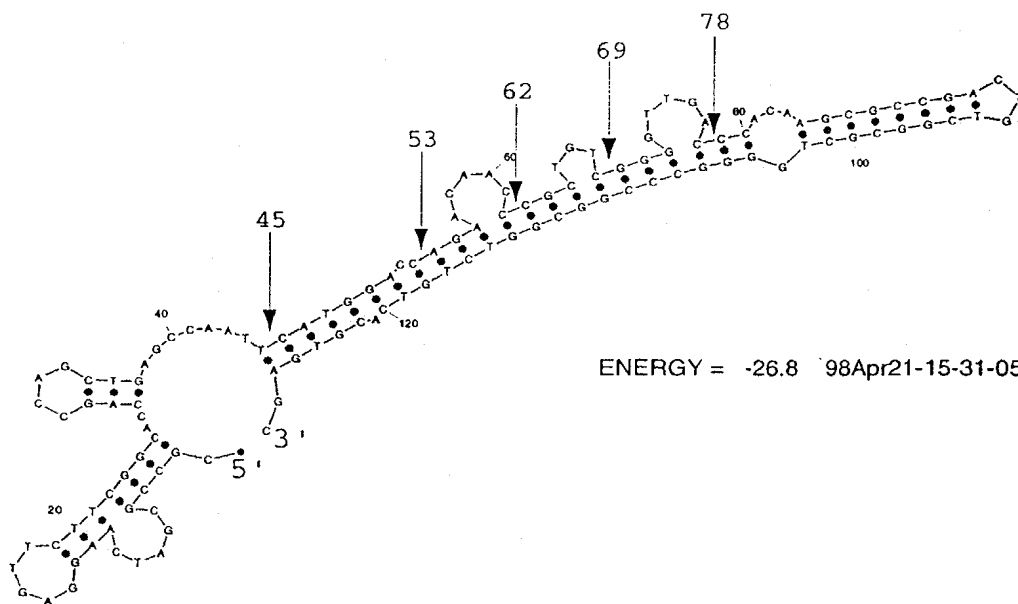


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FIGURE 37A



ENERGY = -23.7 98Apr21-10-39-54



ENERGY = -26.8 98Apr21-15-31-05

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FIGURE 37B

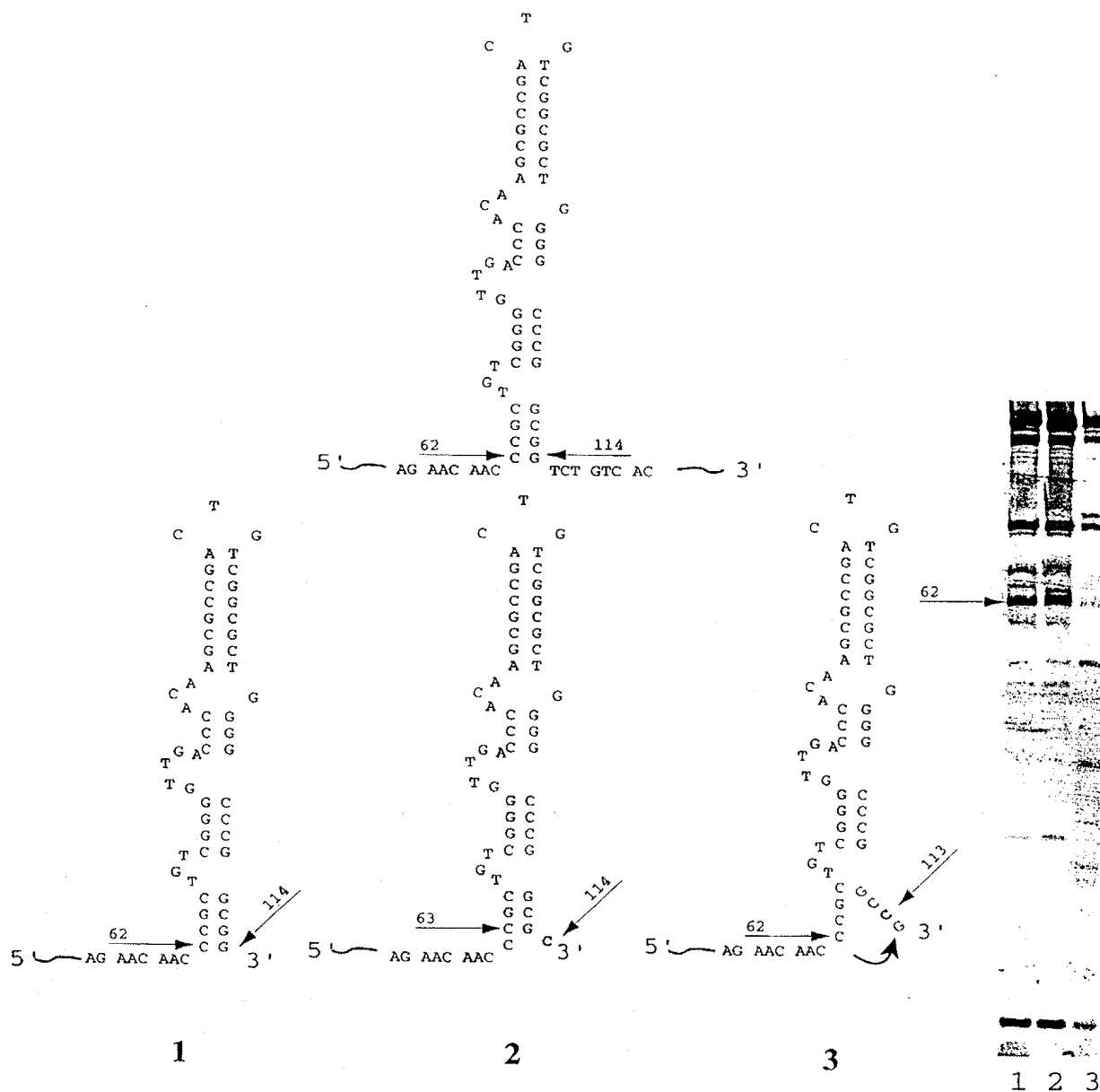


FIGURE 37C

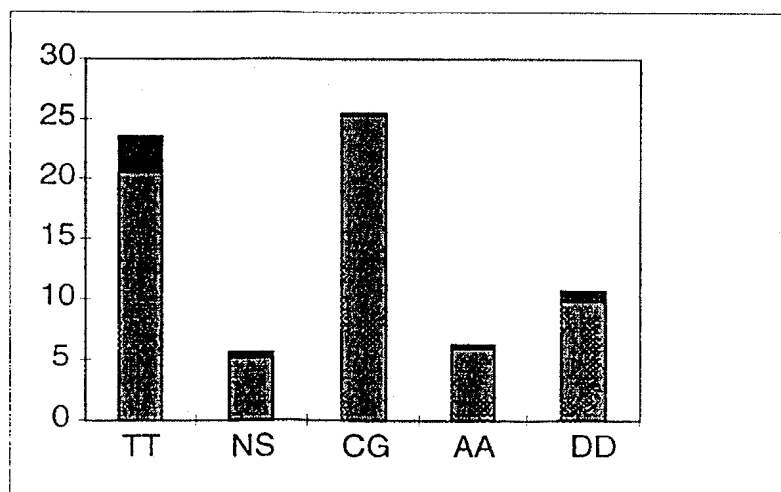
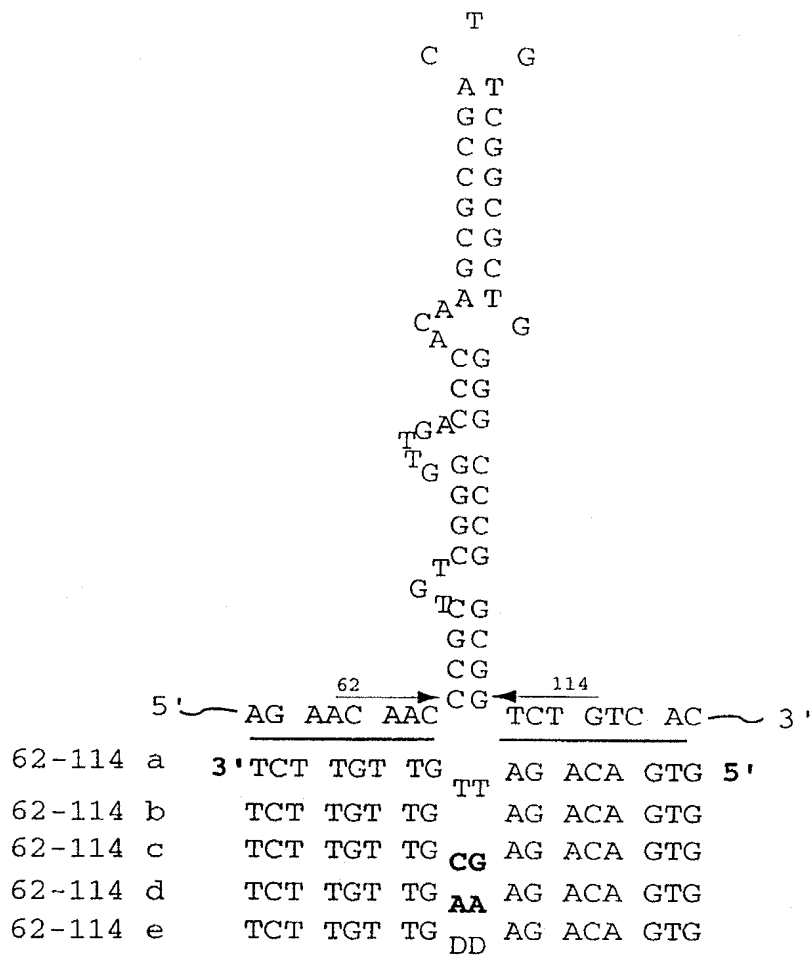


FIGURE 38A

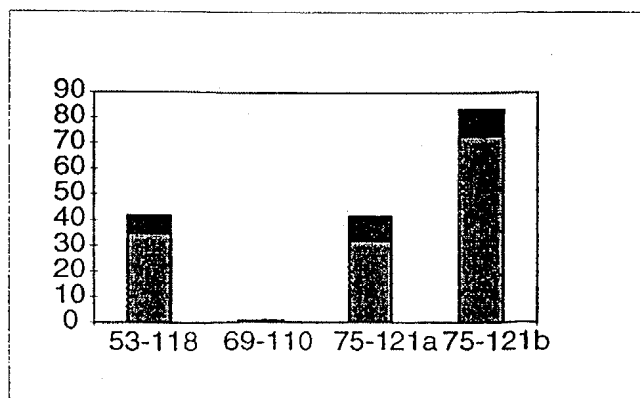
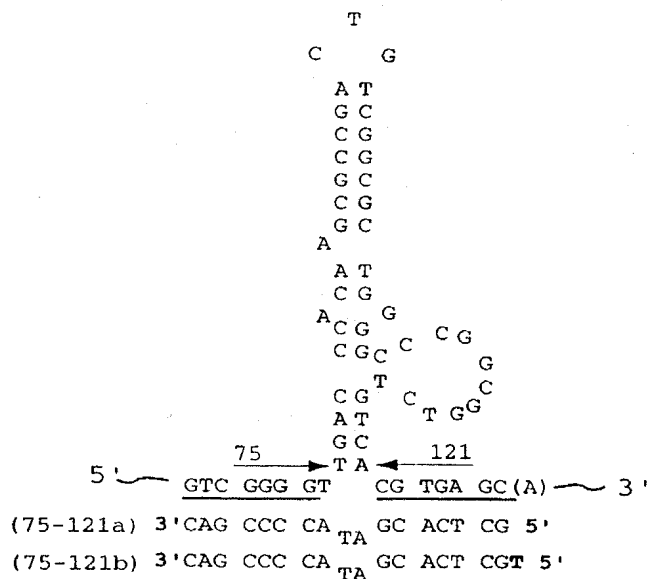
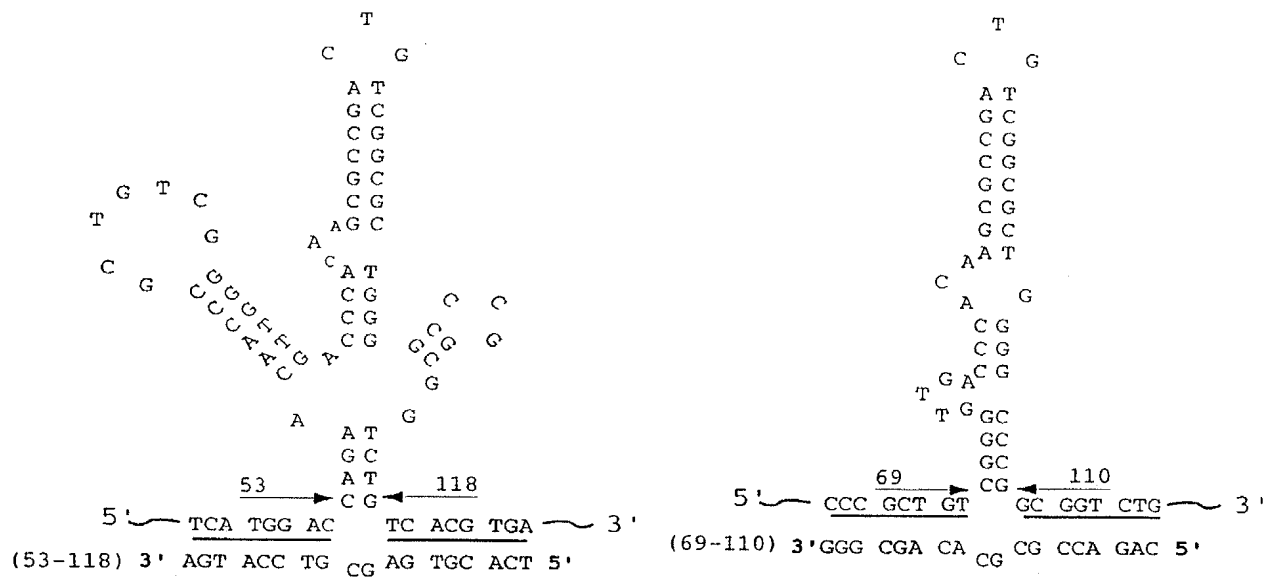


FIGURE 38B

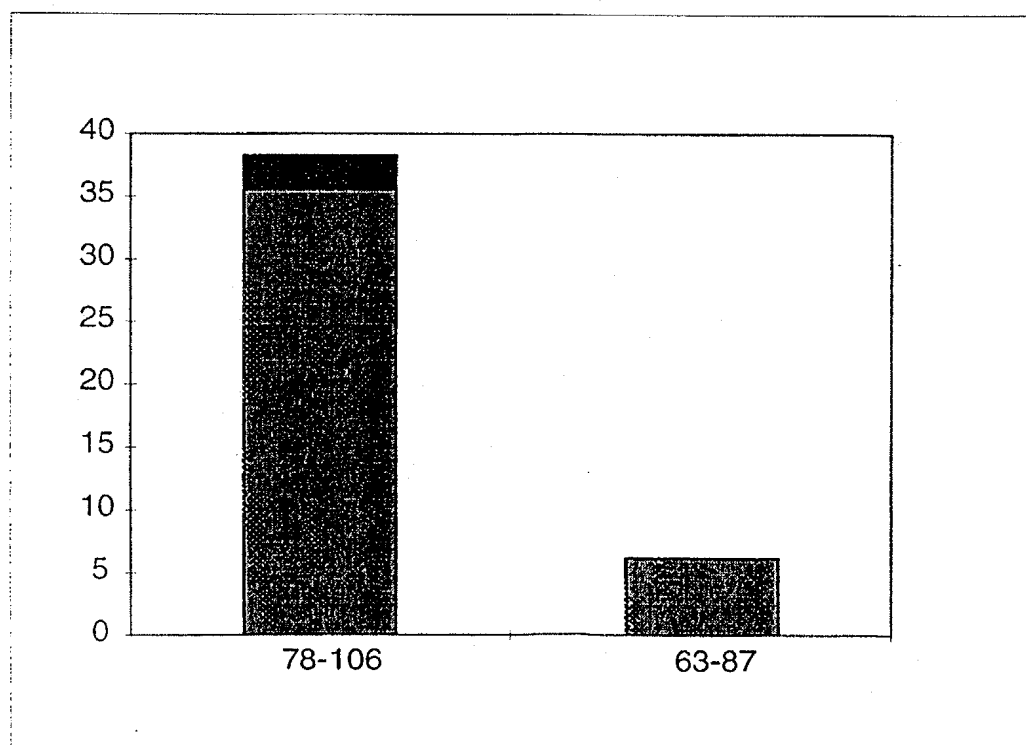
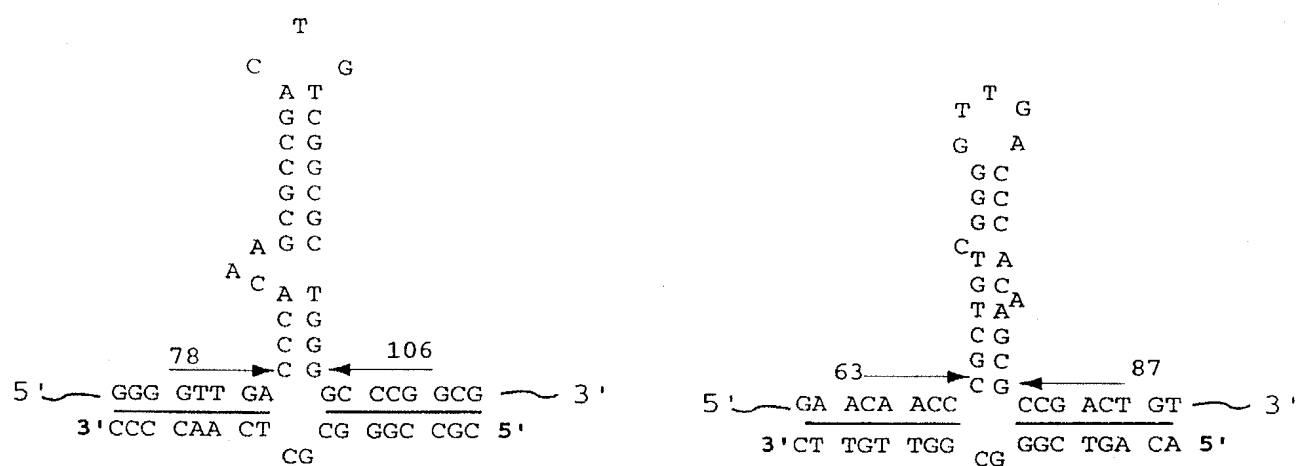


FIGURE 38C

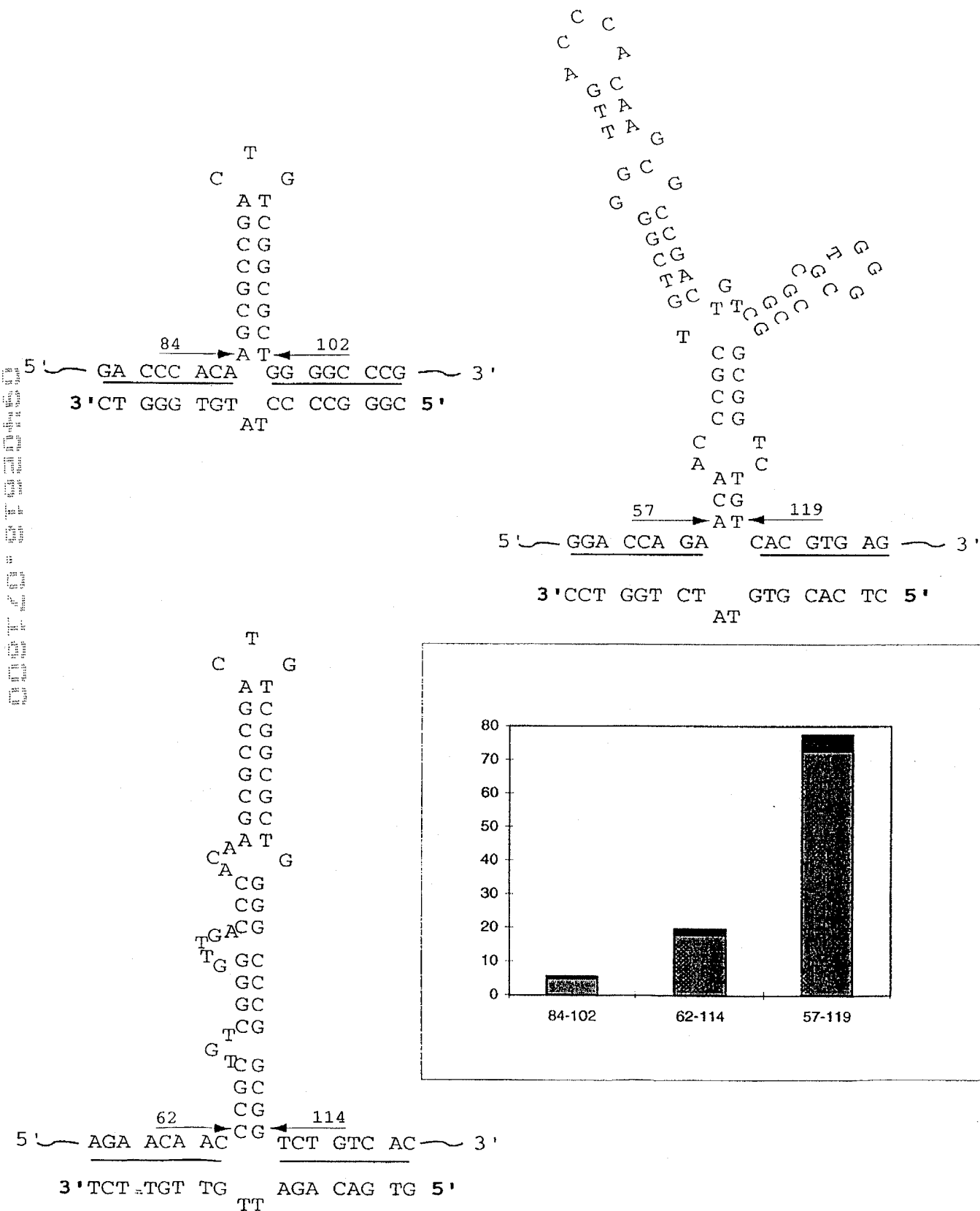


FIGURE 39

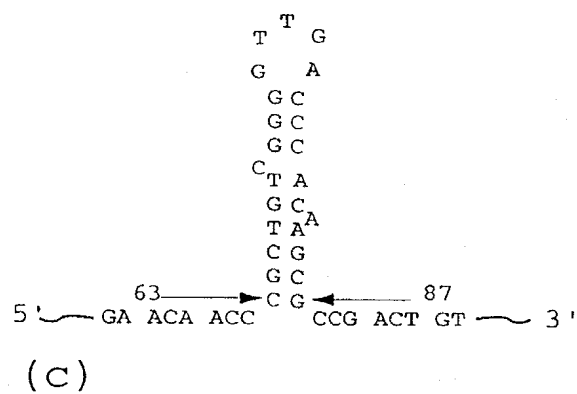
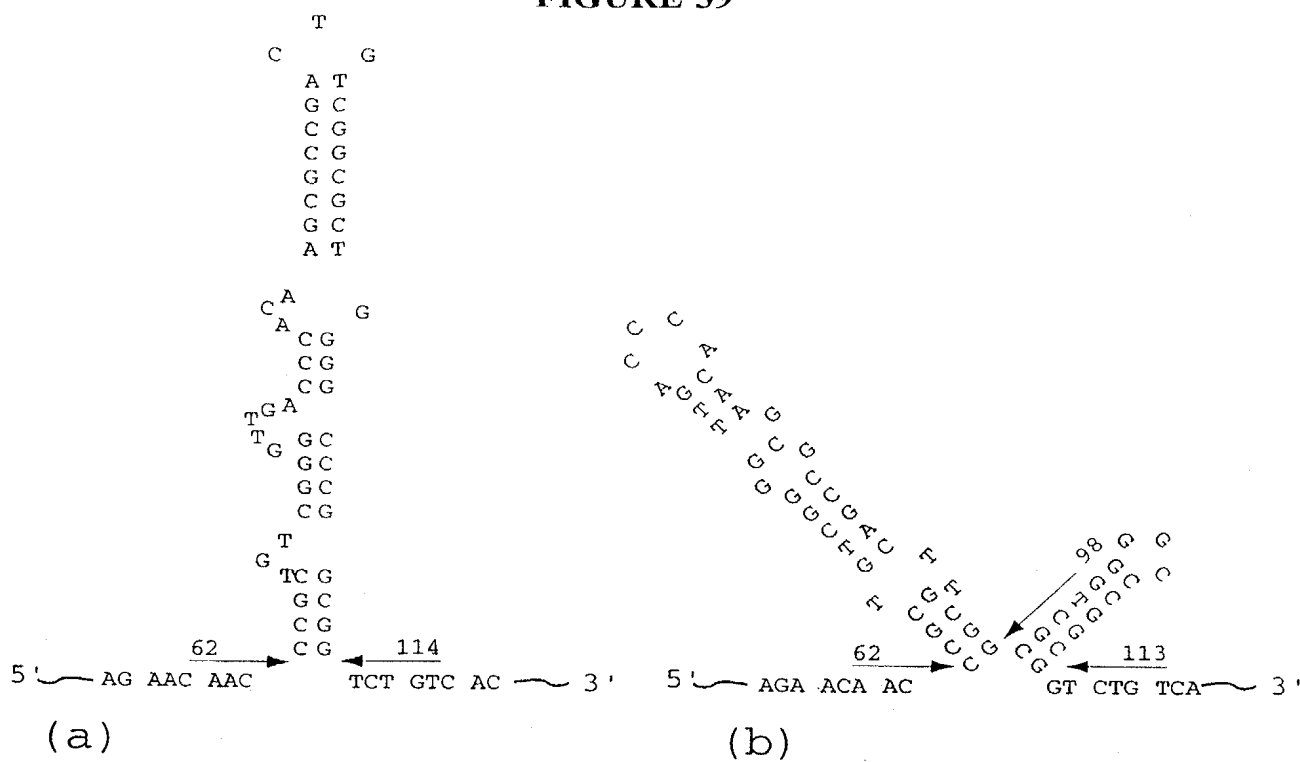


FIGURE 40

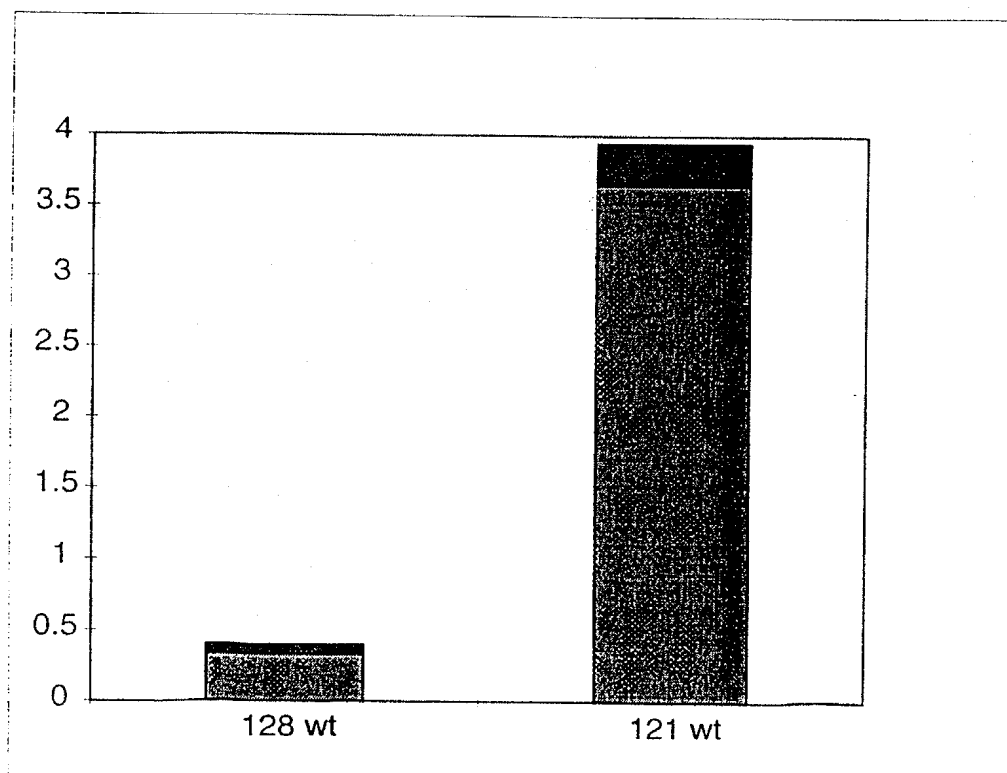
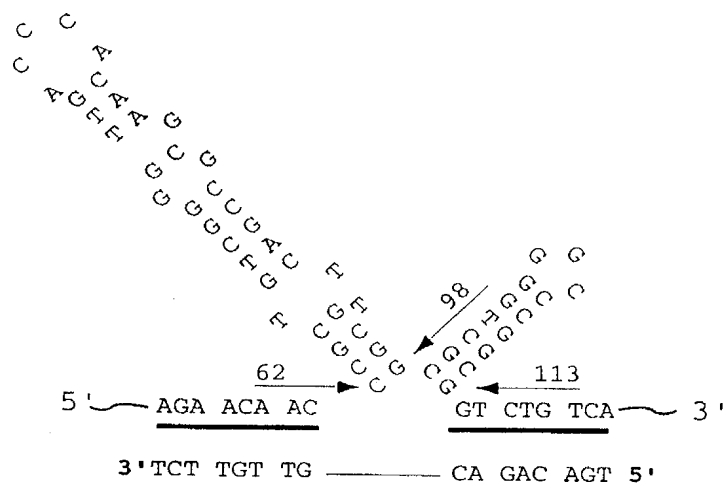


FIGURE 41

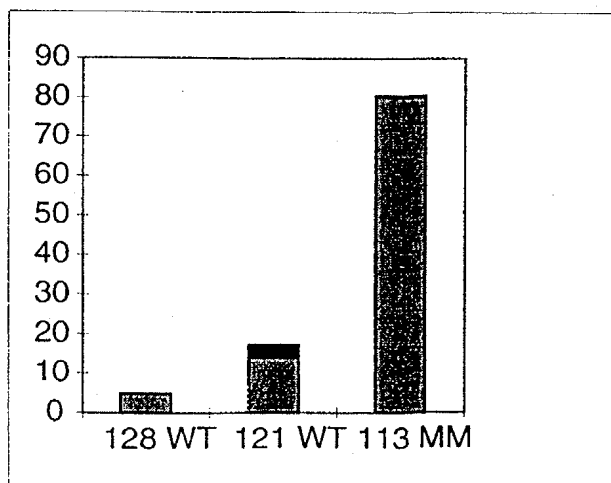
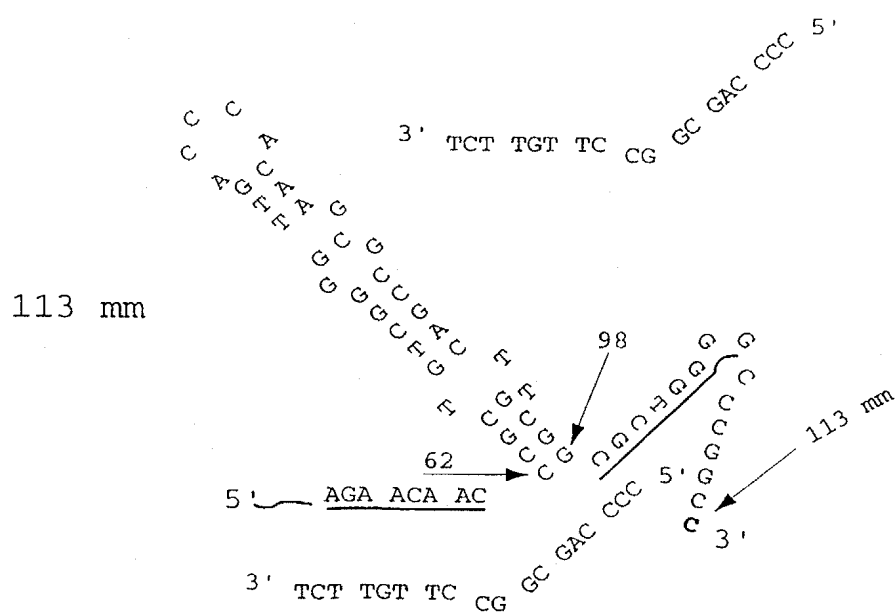
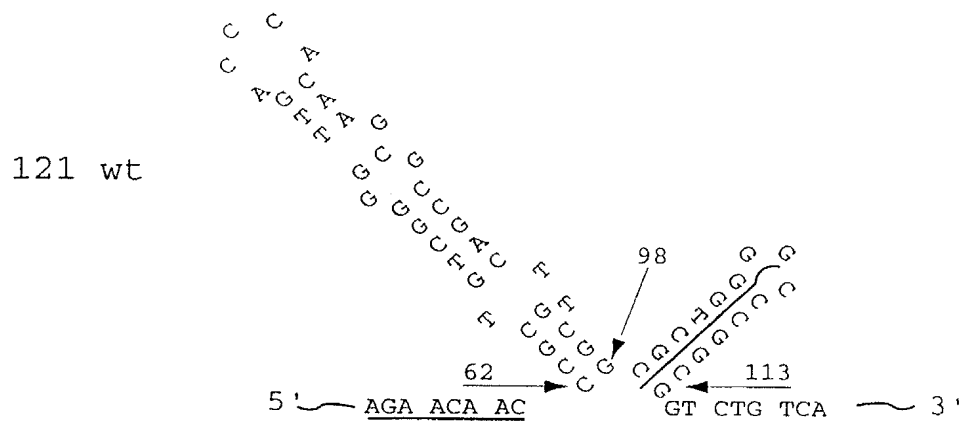
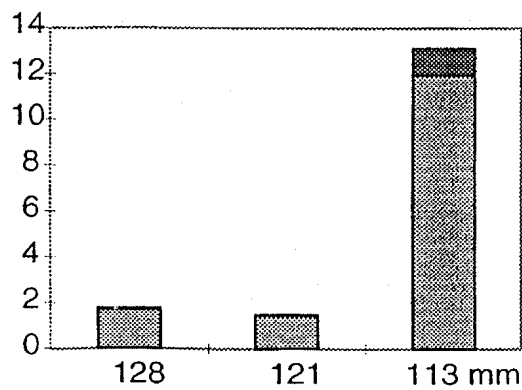
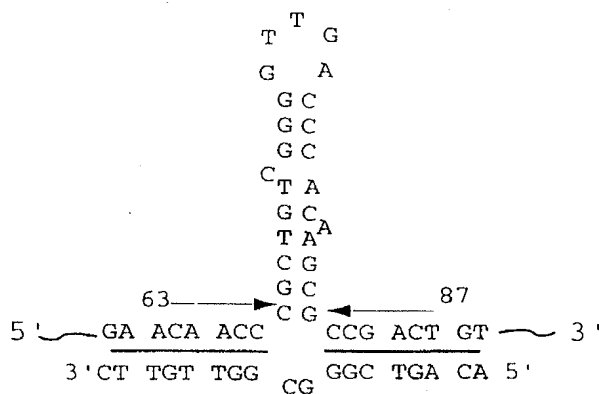


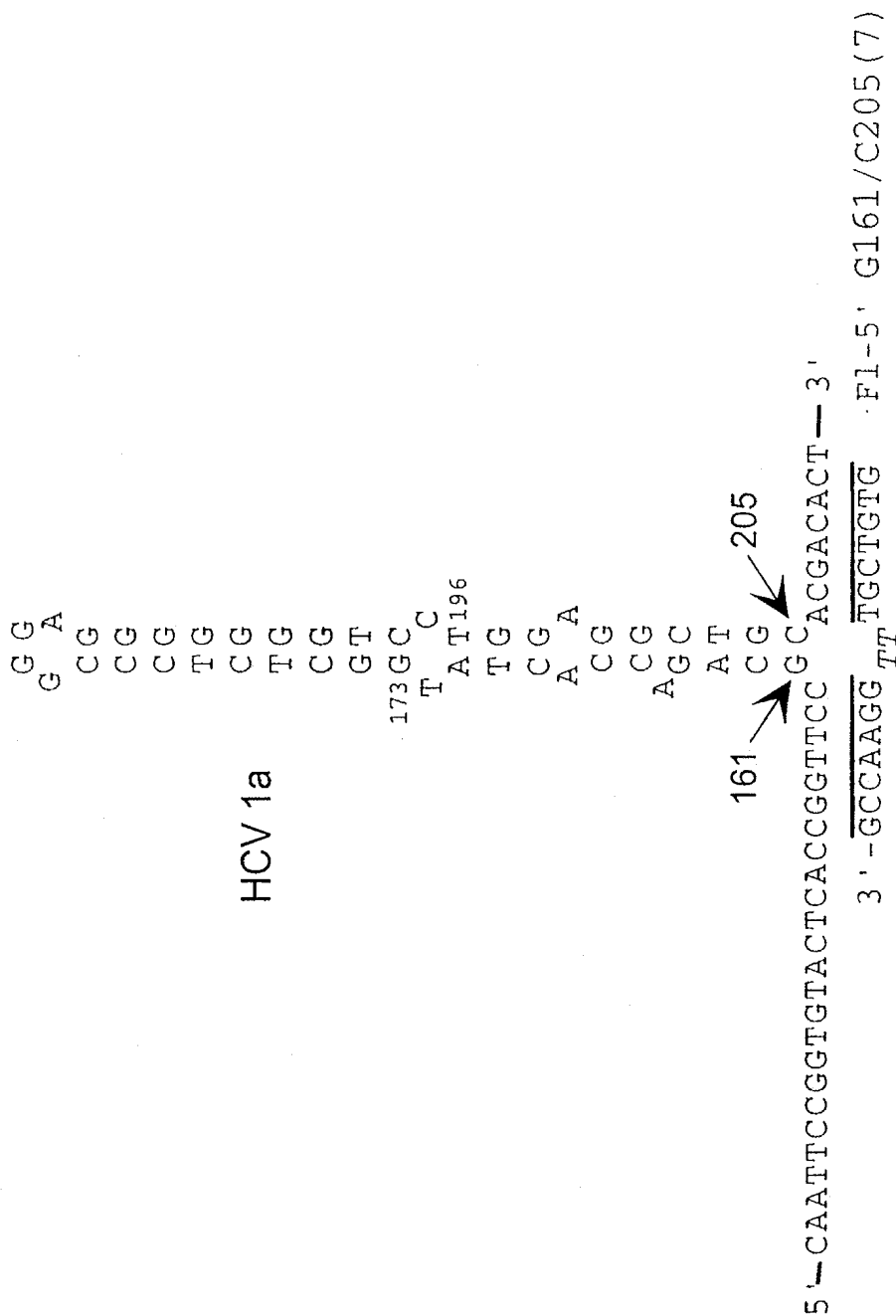
FIGURE 42



5'-CAATTCCGGTGTACTACCGGTTCC-3'

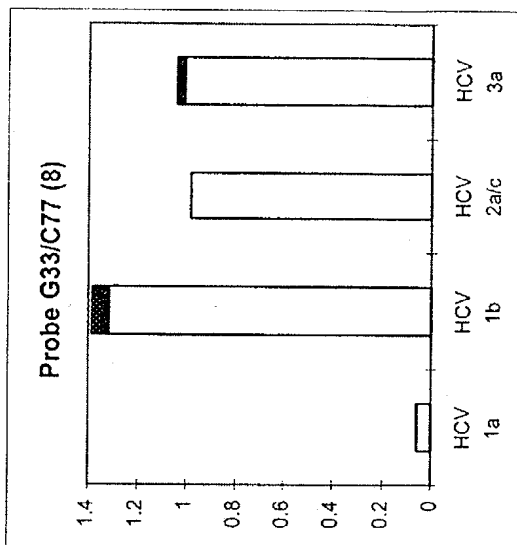
FIGURE 43A

HCV 1a



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FIGURE 44A



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FIGURE 44B

